

ELECTRONIC ANALYTICAL CONTROL UNIT

TYPE 704 - VOLUME 1

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ELECTRONIC ANALYTICAL CONTROL UNIT

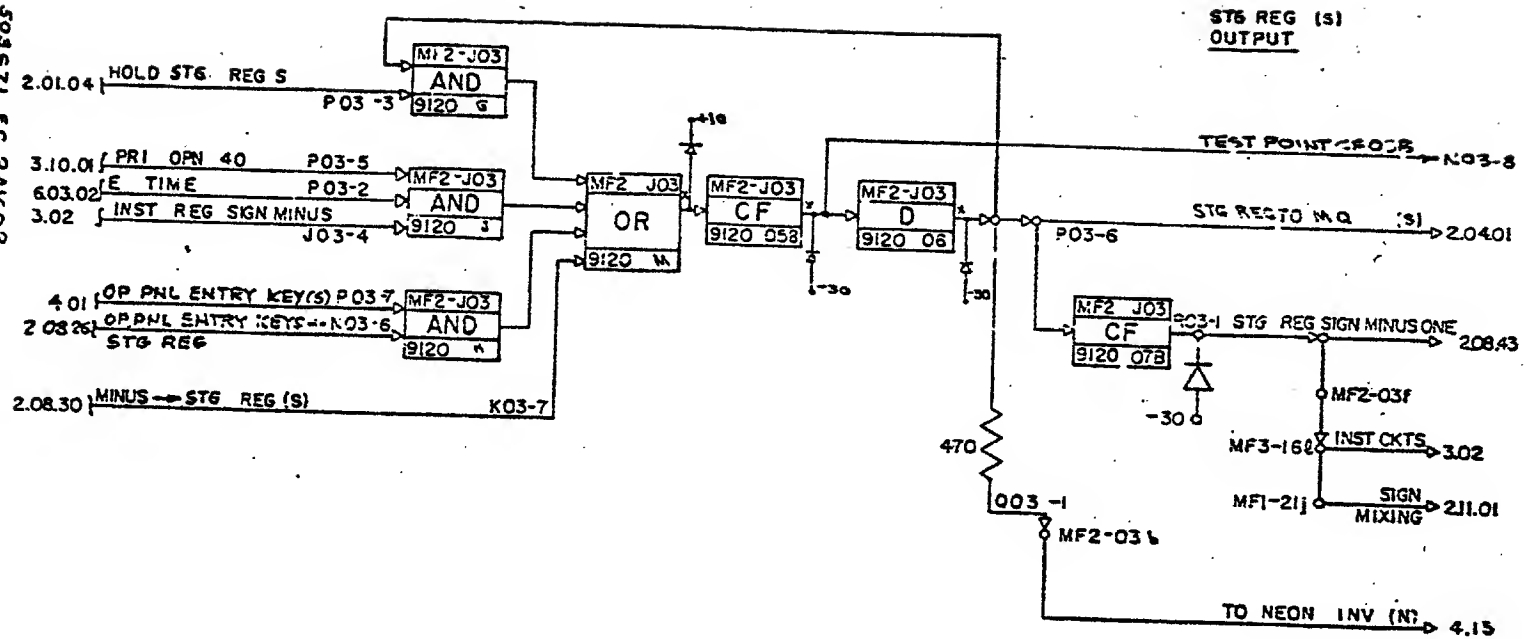
TYPE 704 - VOLUME 1

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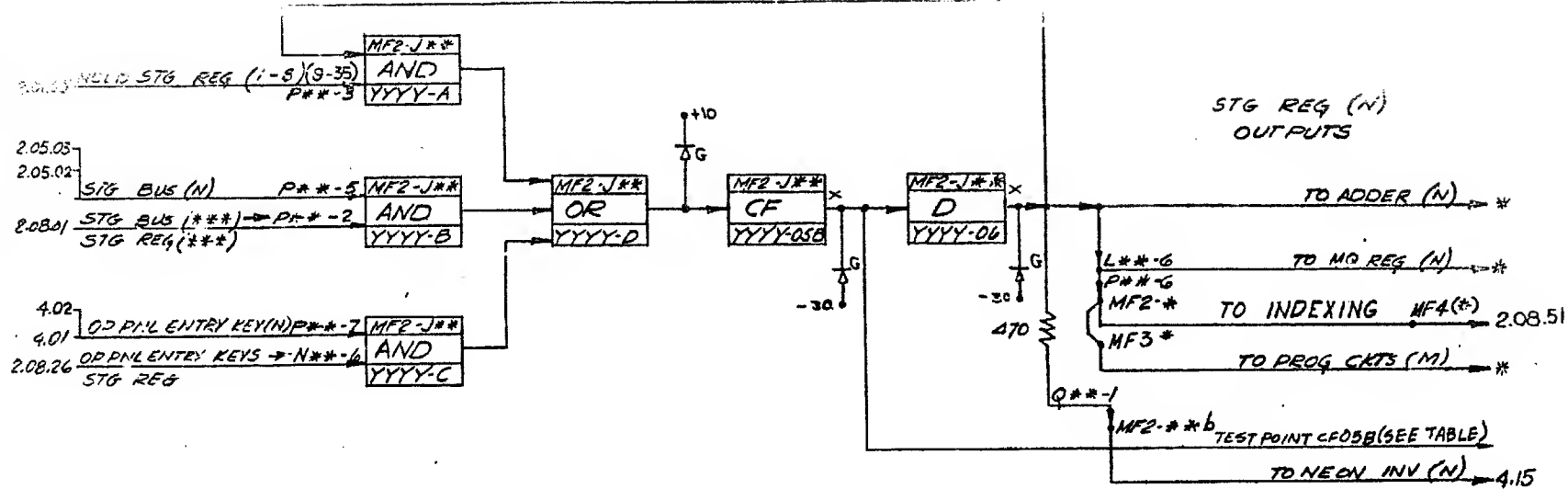
INDEX NO	DESCRIPTION	PART NO	ENG CHG
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2.08.24	MINUS TO MQ S	503754	241399A
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	ENTRY CTRL CARRY 1 TO ADDER 16	503776	242009
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2.09	PULSE & GATE GENERATOR	503781	242939
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2.10.03	TRAPPING CONTROL	503784	241561
2.11.01	SIGN MIXING	503785	241860
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2.12.04	INDEX REGISTER MIXING	503789	241701
2.12.05	INDEX REG TO ADDERS GATING LINE	503790	241815

503671 EC 2A1602



STG REG COL 8

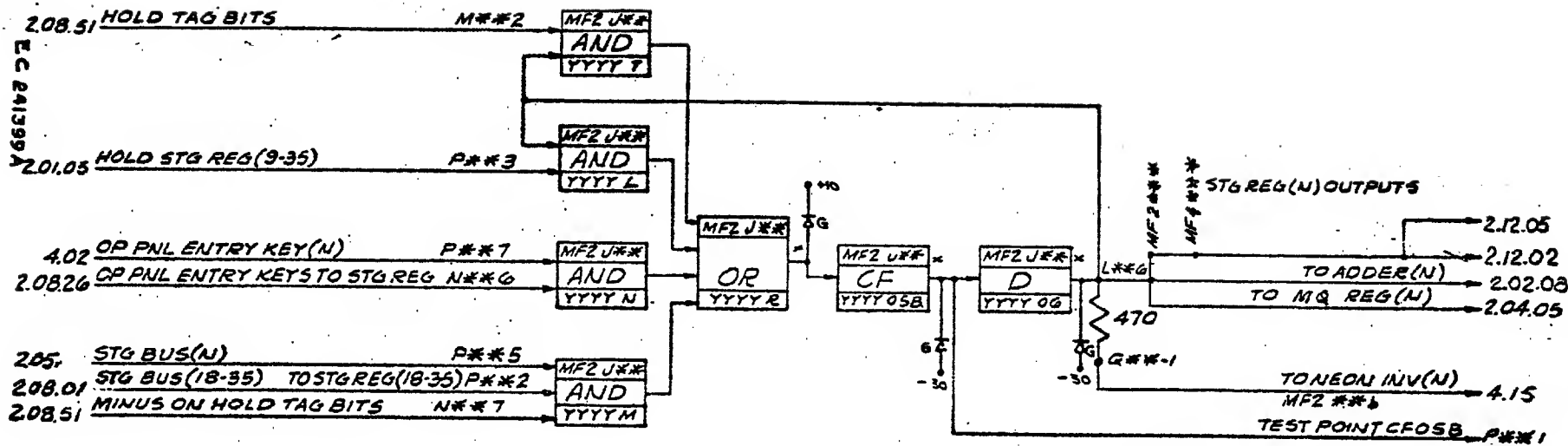
2.01.01



STG. BUS (***)	STG. REG. (***)	TEST POINT CF05B	ARITH. COL NO (N)	PLUGGABLE UNIT LOCATION **	PLUGGABLE UNIT PART NO (YYY)	STG REG (N) OUTPUTS					MF4 EDGE CONNECTORS
						TO ADDER (N) LOG DIAGRAM	TO MQ REG (N) LOG DIAGRAM	*MF3 EDGE CONNECTOR	TO PROGRAM CIRCUITS	*MF2 EDGE CONNECTOR	
1-8	P04-1	1	04	9065	2.02.02	2.04.02	16-B	3.04	04 f	14 M	
1-8	P05-1	2	05	9066	2.02.03	2.04.03	17-M	3.04	05 f	15 K	
1-8	P06-1	3	06	9067	2.02.04	2.04.03	17-9	3.03	06 f		
1-8	P07-1	4	07	9066	2.02.03	2.04.03	18-d	3.03	07 f		
1-8	P08-1	5	08	9067	2.02.04	2.04.03	18-C	3.03	08 f		
1-8	P09-1	6	09	9066	2.02.05	2.04.04	25-B	3.03	09 K		
1-8	P10-1	7	10	9067	2.02.05	2.04.04	25-D	3.03	10 K		
1-8	P11-1	8	11	9066	2.02.05	2.04.04	25-K	3.04	11 K	15 M	
S, 9-17	N12-B	9	12	7611	2.02.06	2.04.05	25-L	3.04	12 K	04 D	
S, 9-17	P13-1	10	13	7610	2.02.07	2.04.05	26A	3.04	21 M		
S, 9-17	N14-B	11	14	7611	2.02.07	2.04.05	24-L	3.04	22 M		
S, 9-17	P15-1	12	15	7610	2.02.07	2.04.05					
S, 9-17	N16-B	13	16	7611	2.02.06	2.04.05					
S, 9-17	P17-1	14	17	7610	2.02.07	2.04.05					
S, 9-17	N18-B	15	18	7611	2.02.10	2.04.05					
S, 9-17	P19-1	16	19	7610	2.02.10	2.04.05					
S, 9-17	N20-B	17	20	7611	2.02.06	2.04.05					

* SEE TABLE

503673
EC 24139A



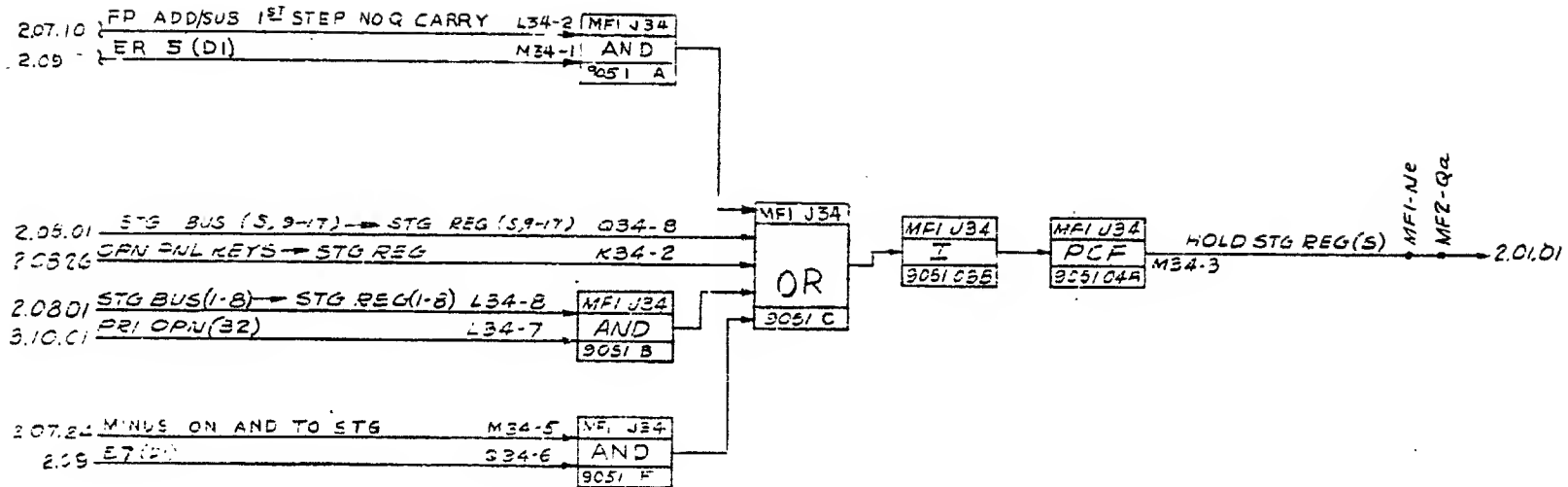
* SEE TABLE

ARTICOL N° (N)	PLUGGABLE UNIT PART N° YYYY	PLUGGABLE UNIT LOCATION **	24 F	25 F
			EDGE CONNECTOR	EDGE CONNECTOR
18	9180	21	24 F	25 F
19	9179	22	25 F	27 F
20	9180	23	27 F	28 F

STG REG CULS (18-20)

2.01.03

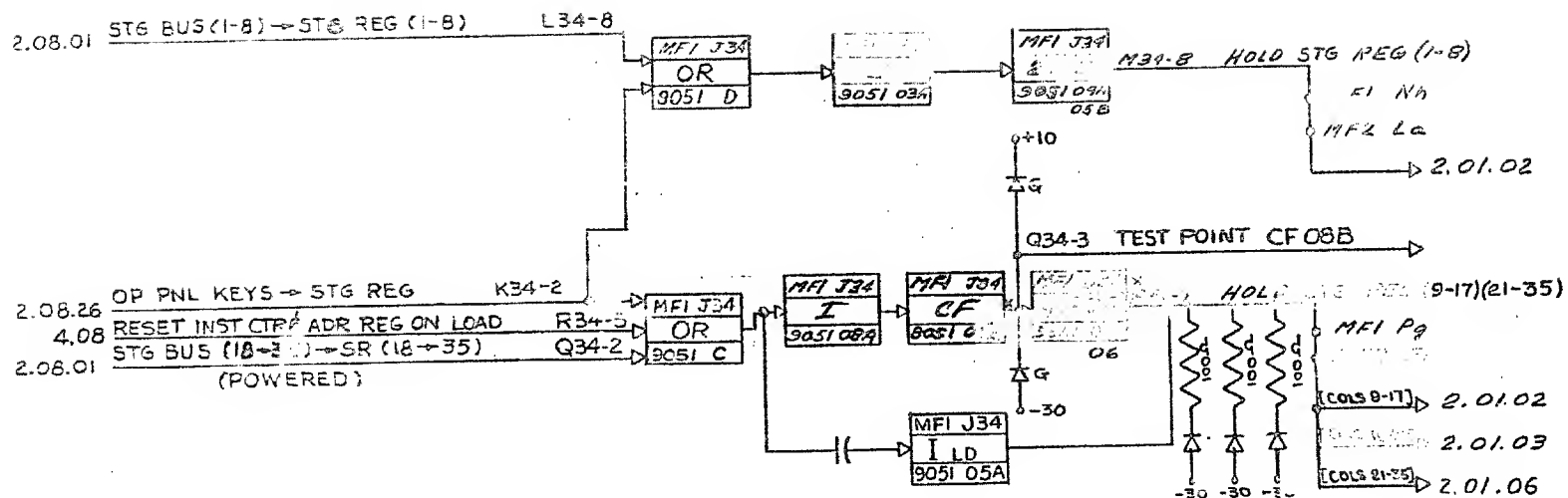
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STG REG COL(S) HOLD CKT

2.01.04

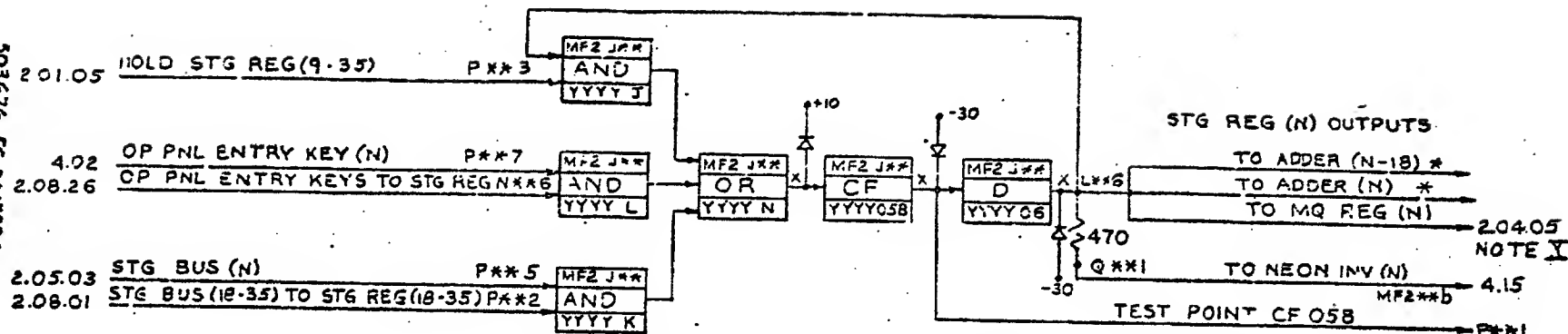
303675 EC 241701



SIG REG COLS (9-35) HOLD CKTS
STG REG COLS (1-8) HOLD CKTS

2.01.05

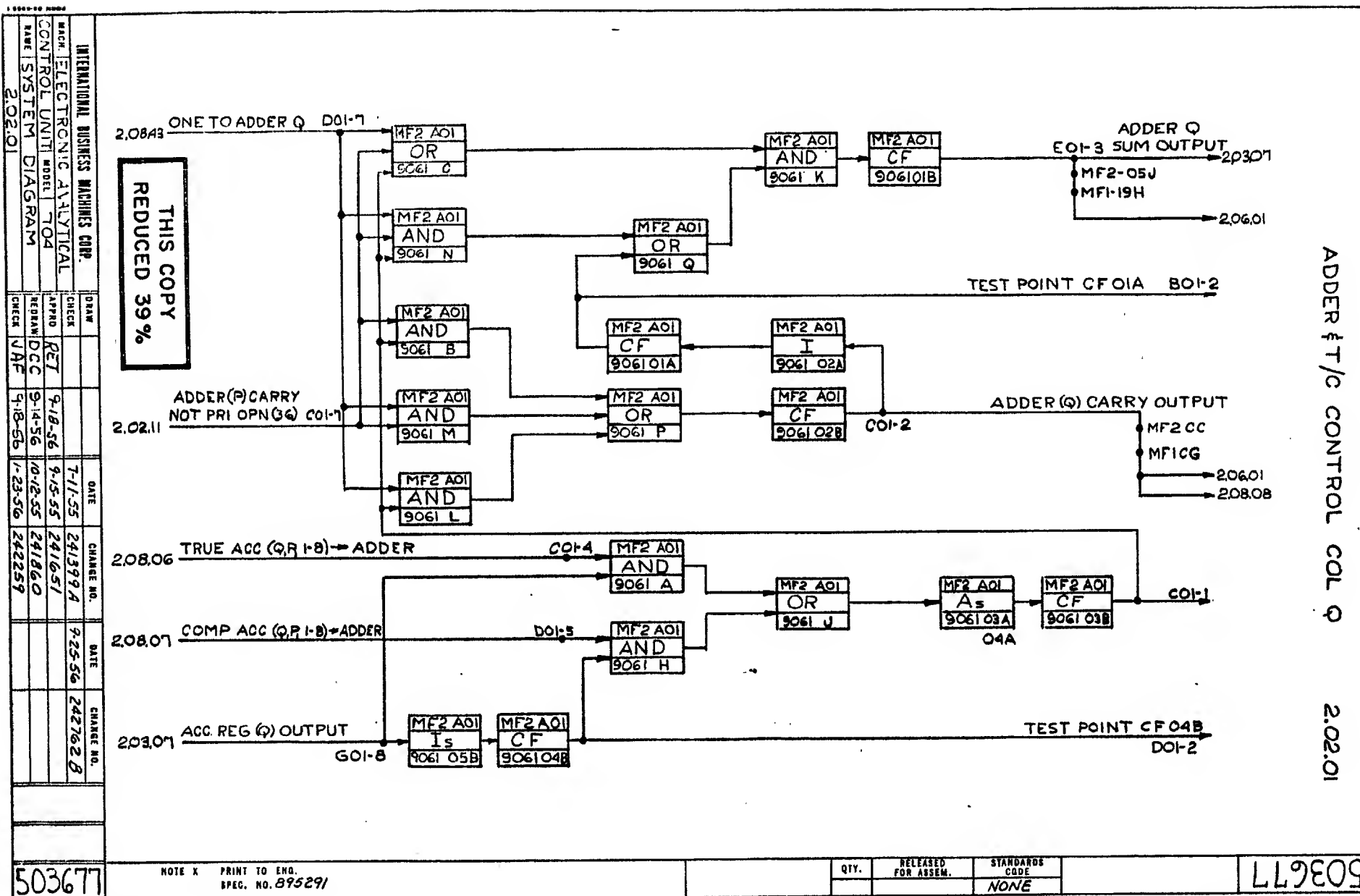
503676 EC 241399A



ARITH COL NO. (N)	PLUGGABLE UNIT PART NO (YYY)	PLUGGABLE UNIT LOCATION (**)	STG REG (N) OUTPUT TO ADDER (N) LOGICAL DIAGRAM NO	STG REG (N) OUTPUT TO ADDER (N-18) LOGICAL DIAGRAM NO
21	9182	24	2.02.09	
22	9181	25	2.02.08	
23	9182	26	2.02.08	
24	9181	27	2.02.08	2.02.05
25	9182	28	2.02.09	2.02.05
26	9181	29	2.02.08	2.02.05
27	9182	30	2.02.08	2.02.06
28	9181	31	2.02.08	2.02.07
29	9182	32	2.02.09	2.02.07
30	9181	33	2.02.08	2.02.07
31	9182	34	2.02.08	2.02.06
32	9181	35	2.02.08	2.02.07
33	9182	36	2.02.09	2.02.10
34	9181	37	2.02.08	2.02.10
35	9060	38	2.02.08	2.02.06

STG REG COLS (21-35)

2.01.06

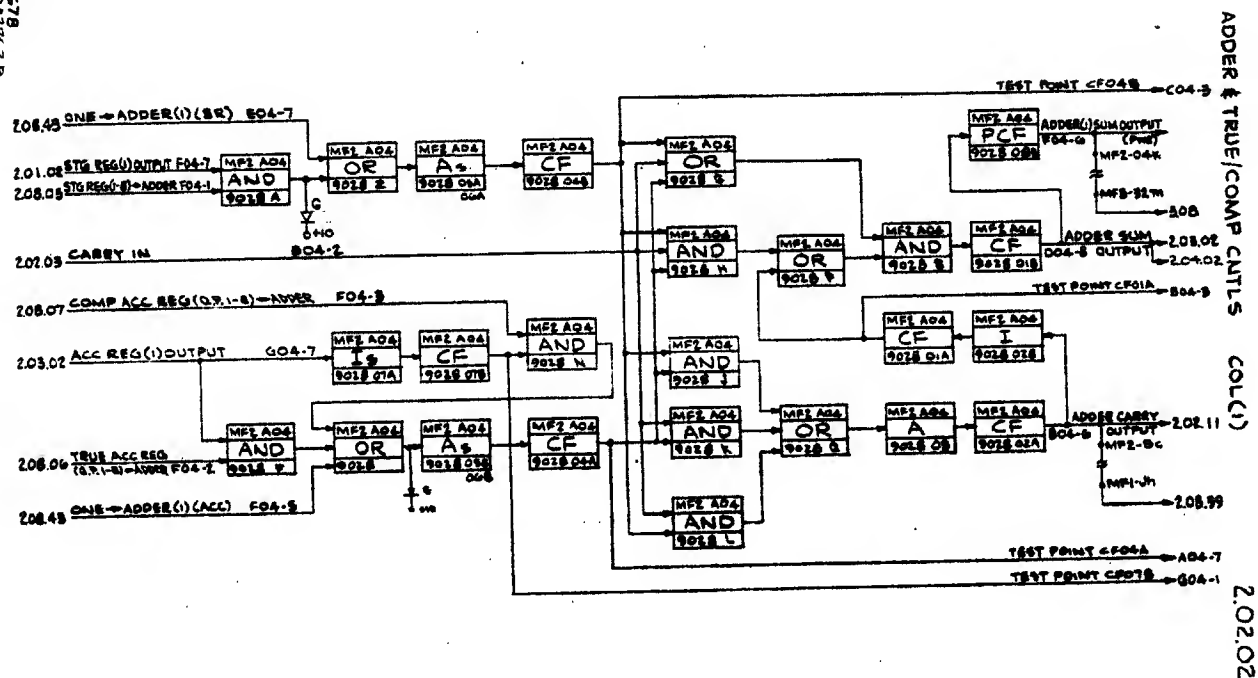


STANDARD CODE	RELEASED FOR ASSEM
NONE	503626

4503678

DATE	CHANGE NO.
7-11-55	241399A
10-13-55	241863
9-25-56	242162C

503678
EC 242762 B

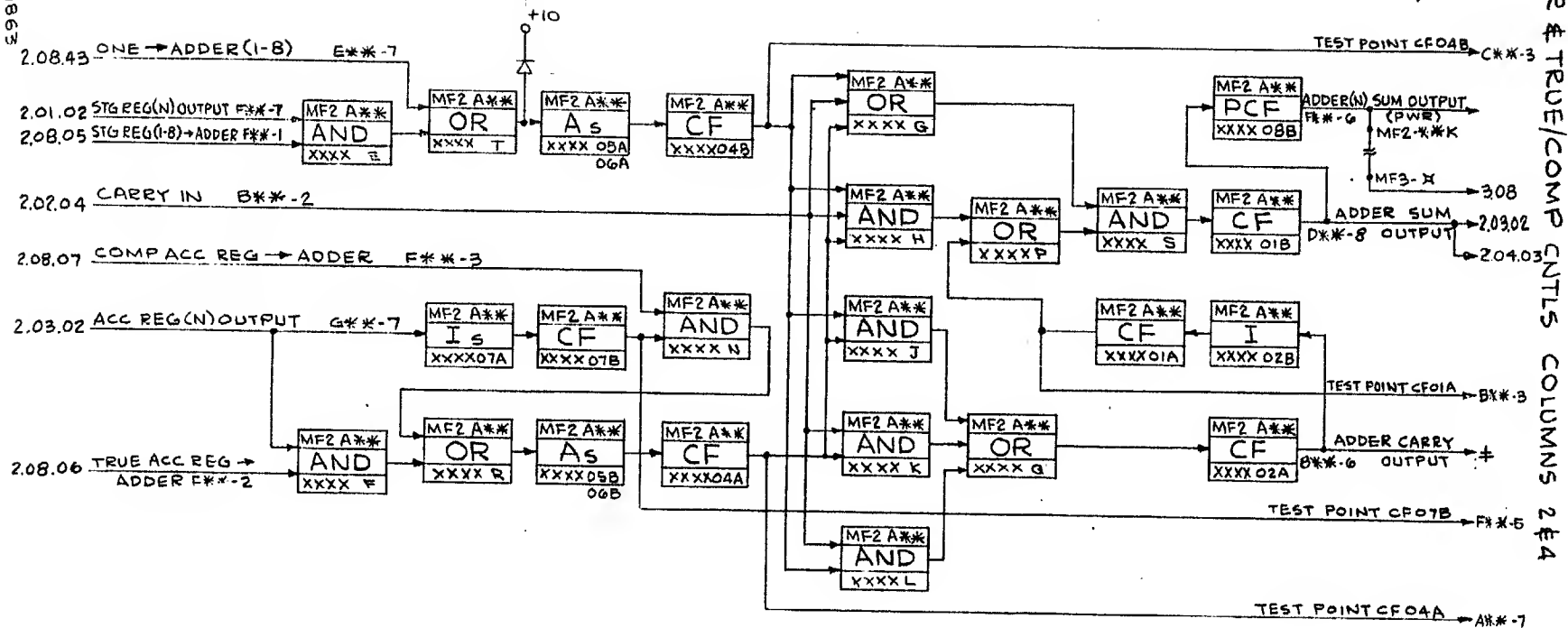


503678

NOTE:
I PAST TO HQ SPEC.
000001

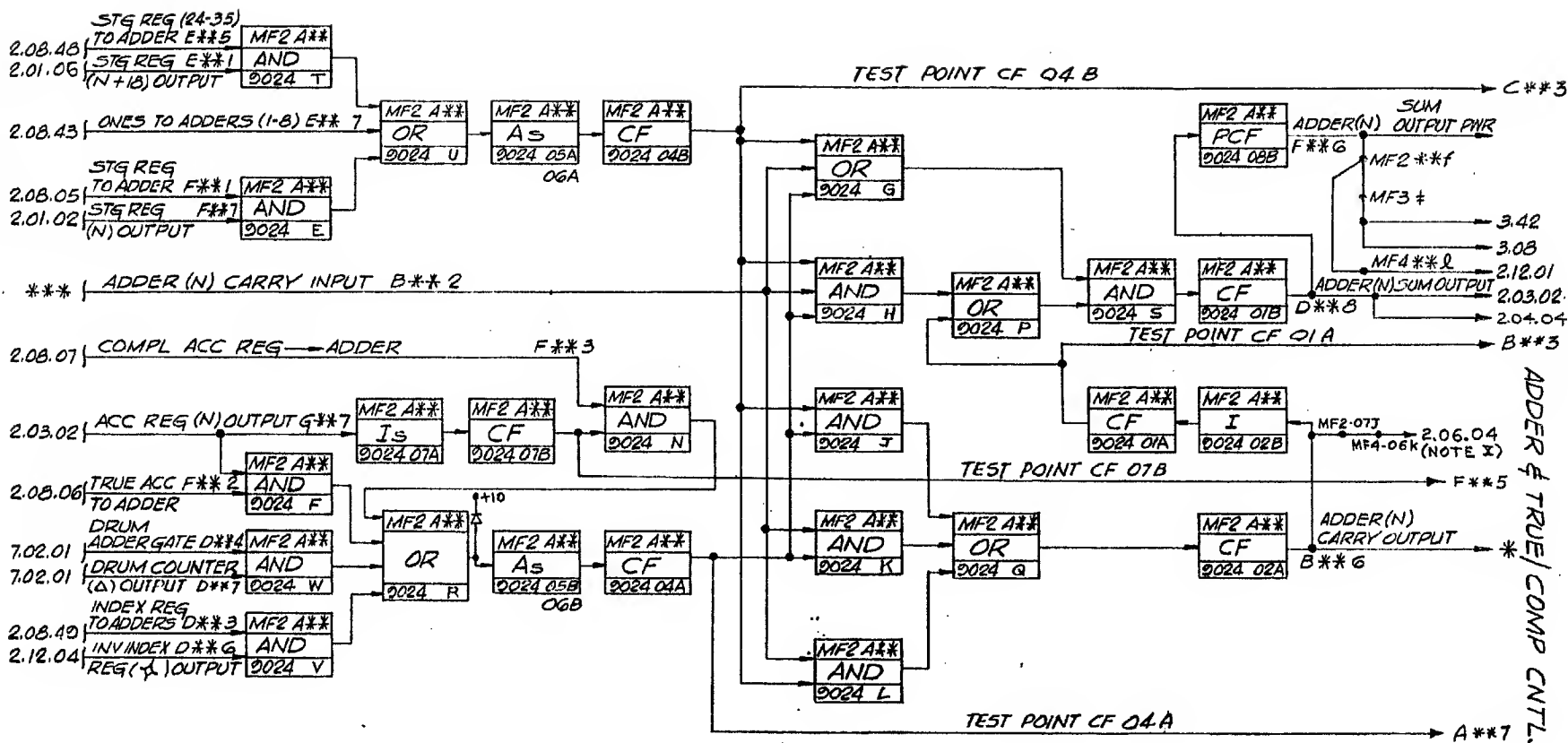
EXTERNAL SPECIFICATION NO.		TELEPHACES W/LES STUDIOS/NTS		ALIGNMENT WITHIN		NOTE 1	INTERNATIONAL BUSINESS MACHINES CORP.	
MAGNETS & JOBS		CONCENTRIC WITHIN		NOT ME REASONS		NOTE 2	EACH ELECTRONIC ANALYTICAL CONTROL UNIT MODEL: 704	
FRACTURES & L/D		PLAY WITHIN				NOTE 3	NAME: SYSTEM DIAGRAM	
ABLES & I"		PULSE WITHIN				NOTE 4	S.G. 02	
COMMON		OUTSIDE				NOTE 5	WASH: JLC G-2-54 MODEL: NONE	
SAY RE SQUISH		INSIDE				NOTE 6	WASH: JLC G-2-53 TAG: RH 11-18-56	
						NOTE 7	APPROX: JLC G-2-55 MODEL: LHS 11-16-59	

503678



ARITH. COLUMN NO. (N)	2	4
PLUGGABLE UNIT LOCATION (**)	05	07
ADDER CARRY OUTPUT LOG. DIAGRAM NO. (#)	2.02.02	2.02.04
ADDER(N) POWER OUTPUT MF3 EDGE CONN. (X)	32 L	33 L
PU NUMBER XXXX	9026	9177

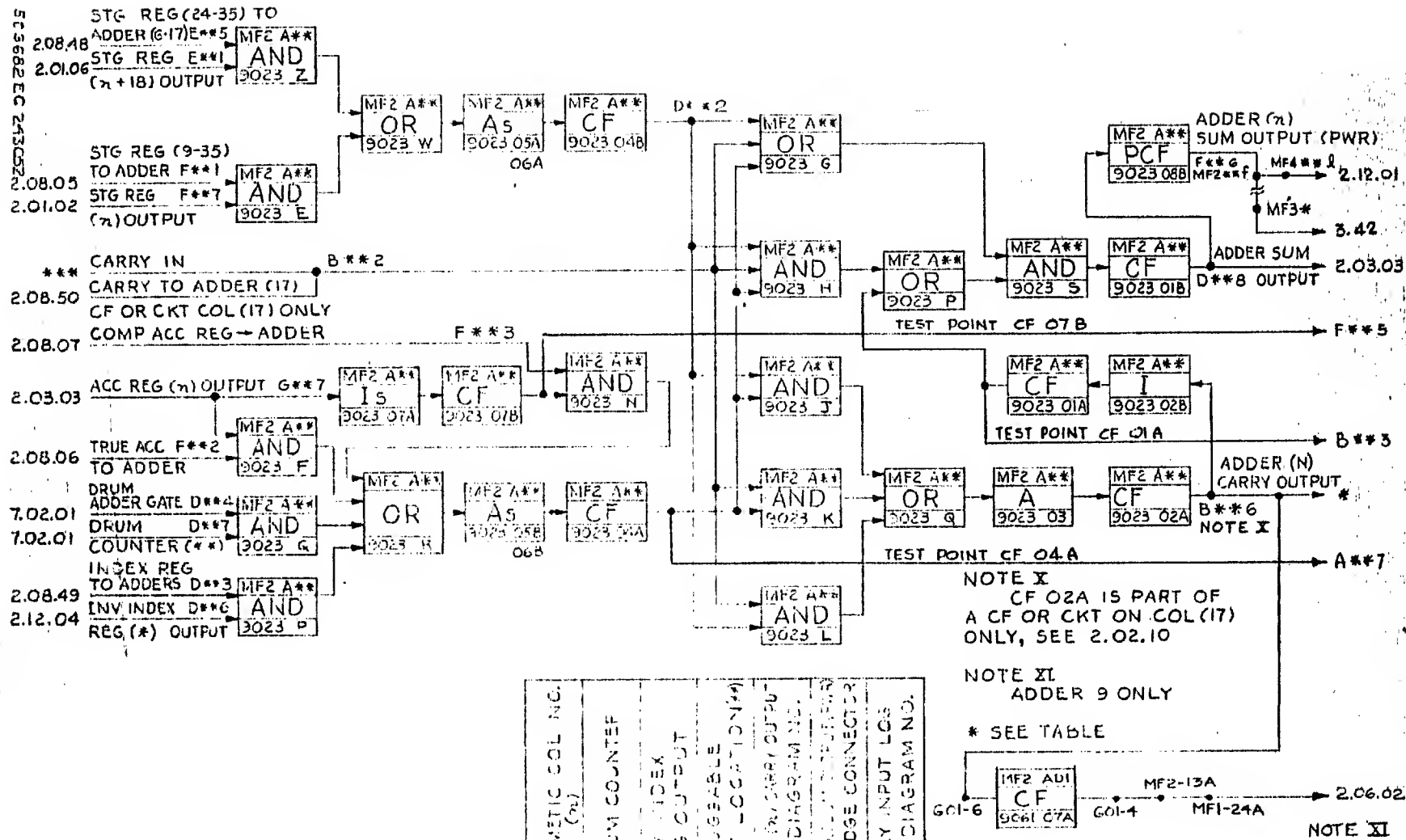
503681 EC 243052



NOTE
X ADDER 6 ONLY

ARITH COLUMN NO (N)	DRUM CTR OUTPUT (Δ)	INDEX REG OUTPUT (Δ)	PLUGGABLE UNIT LOCATION (**)	ADDER CARRY OUTPUT LOG DIA NO (*)	ADDER(N) SUM OUTPUT FOR MEZ EDGE CONNECTOR (+)	CARRY INPUT (***)	LOG DIAGRAM NO 607
6	3	1	9	202.04	24d	2.02.05	
7	2	2	10	202.05	24m	2.02.05	
8	1	3	11	202.05	24c	2.08.44	

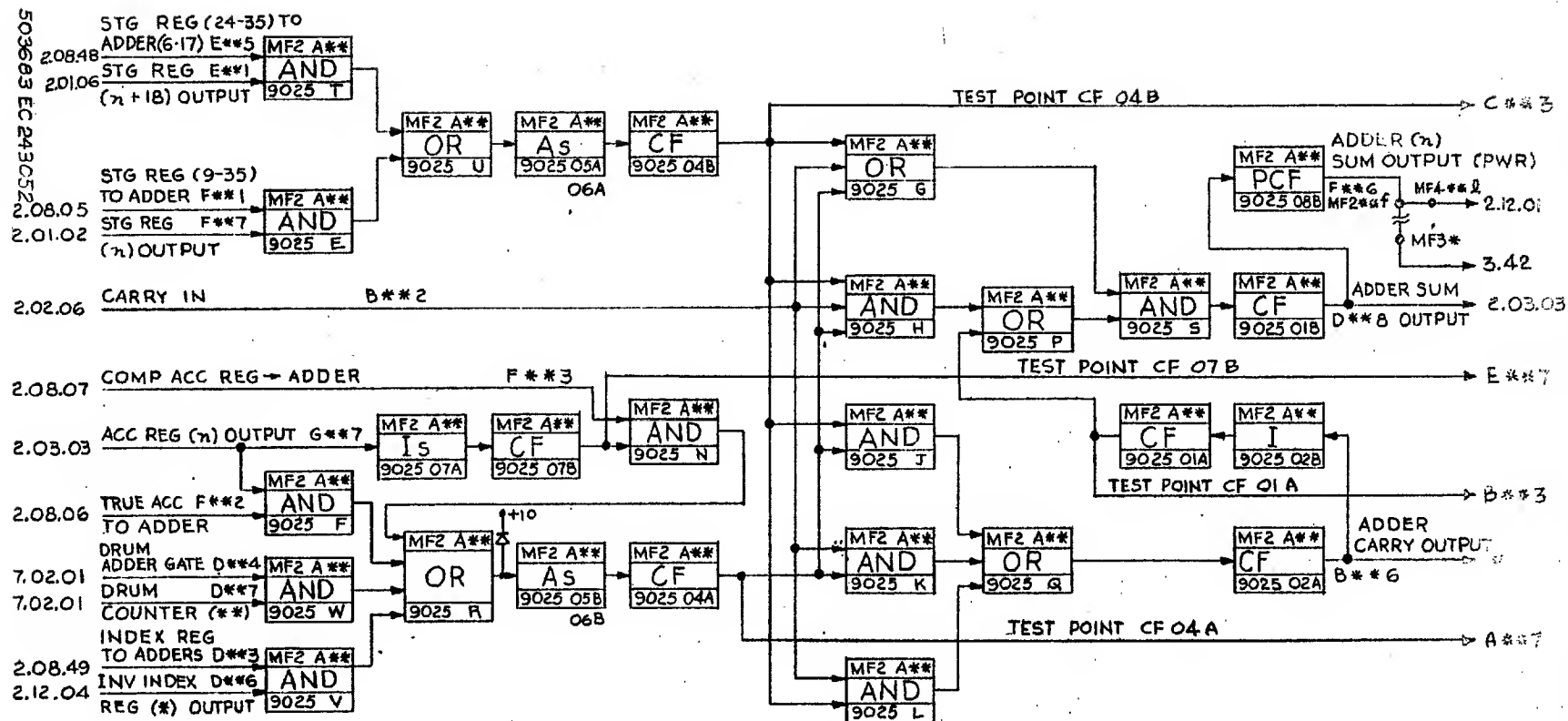
ADDER 4 TRUE/COMP CNTLS. COLS 6,7,8 2.02.05



ARITHMETIC COL NO. (7)	DRUM COUNTER	INV INDEX REG OUTPUT	PLUGGABLE UNIT LOCATION	DRUM CARRY OUTPUT LOG DIAGRAM NO.	DRUM CARRY OUTPUT LOG DIAGRAM NO.	DRUM CARRY OUTPUT LOG DIAGRAM NO.	DRUM CARRY OUTPUT LOG DIAGRAM NO.	DRUM CARRY OUTPUT LOG DIAGRAM NO.	DRUM CARRY OUTPUT LOG DIAGRAM NO.
12	12	12	12	2.02.07	2.02.07	2.02.07	2.02.07	2.02.07	2.02.07
13	7	8	16	2.02.07	2.02.07	2.02.07	2.02.07	2.02.07	2.02.07
17	17	17	17	2.02.10	2.02.10	2.02.10	2.02.10	2.02.10	2.02.10

ADDER & TRUE/COMP CNTLS COLS 9,13,17

2.02.06

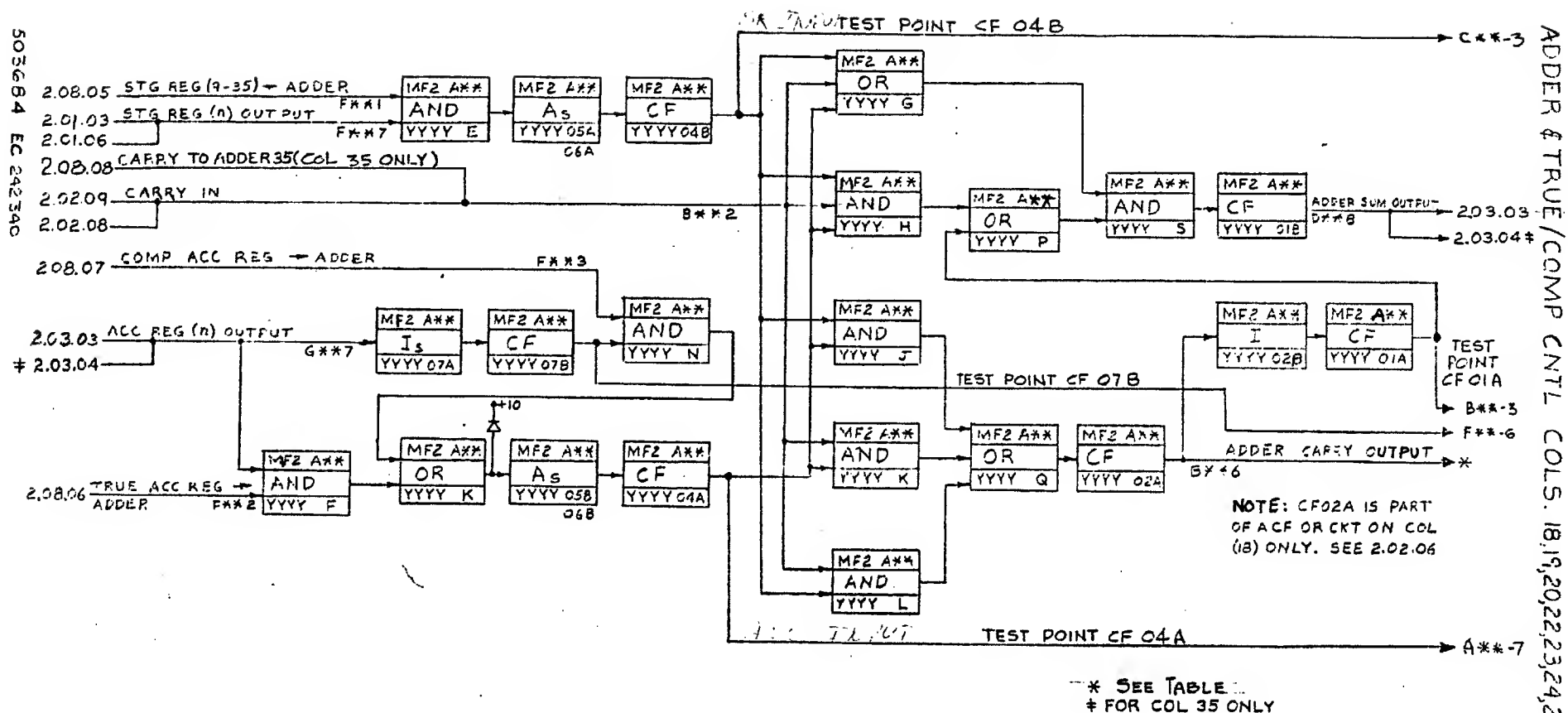


ADDER & TRUE/COMP CNTLS CO1S 10,11,12,14.

2.02.07

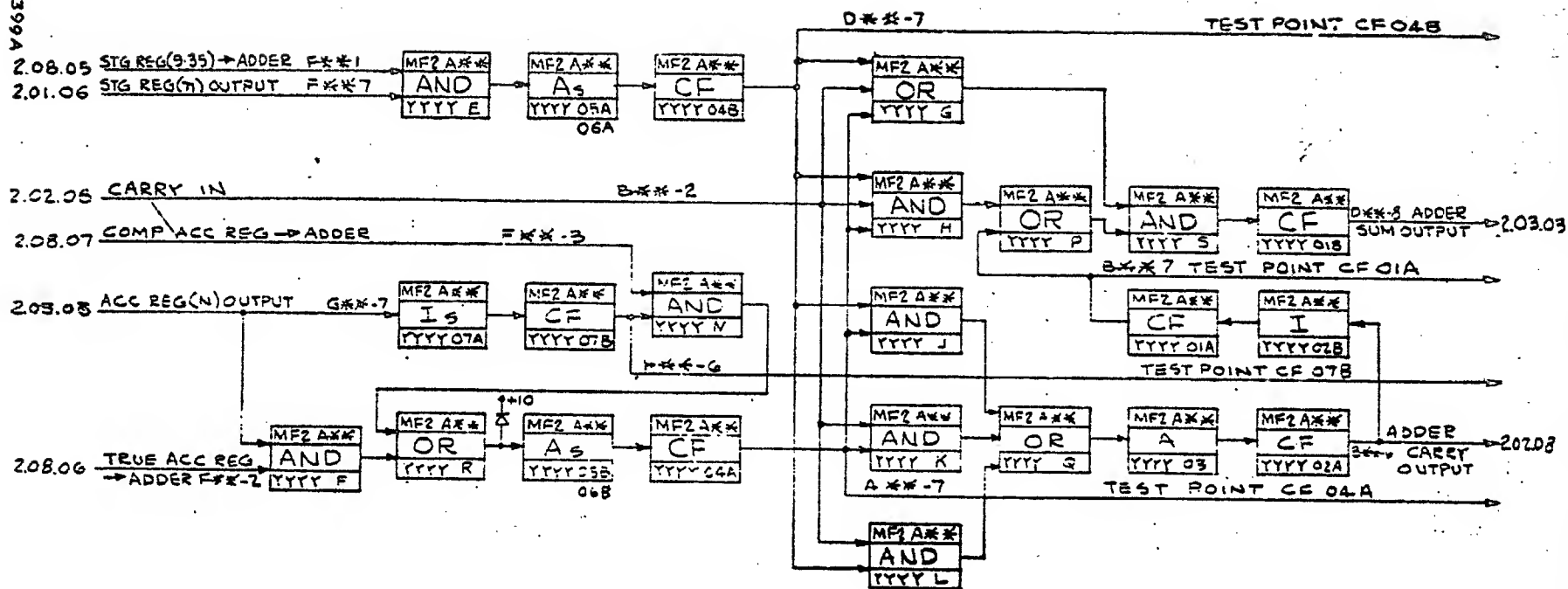
ARITHMETIC COL NO. (n)	DRUM COUNTER	INV INDEX (*) REG OUTPUT	PLUGGABLE UNIT LOCATION (n)	ADDER (n) CARRY OUTPUT LOG DIAGRAM NO.	ADDER (n) SUM OUTPUT (PWR) MF3 EDGE CONNECTOR	CARRY INPUT LOG DIAGRAM NO.
10	10	5	13	2.02.06	25c	2.02.07
11	9	6	14	2.02.07	25d	2.02.07
12	8	7	15	2.02.07	25j	2.02.06
14	6	9	17	2.02.06	25m	2.02.10

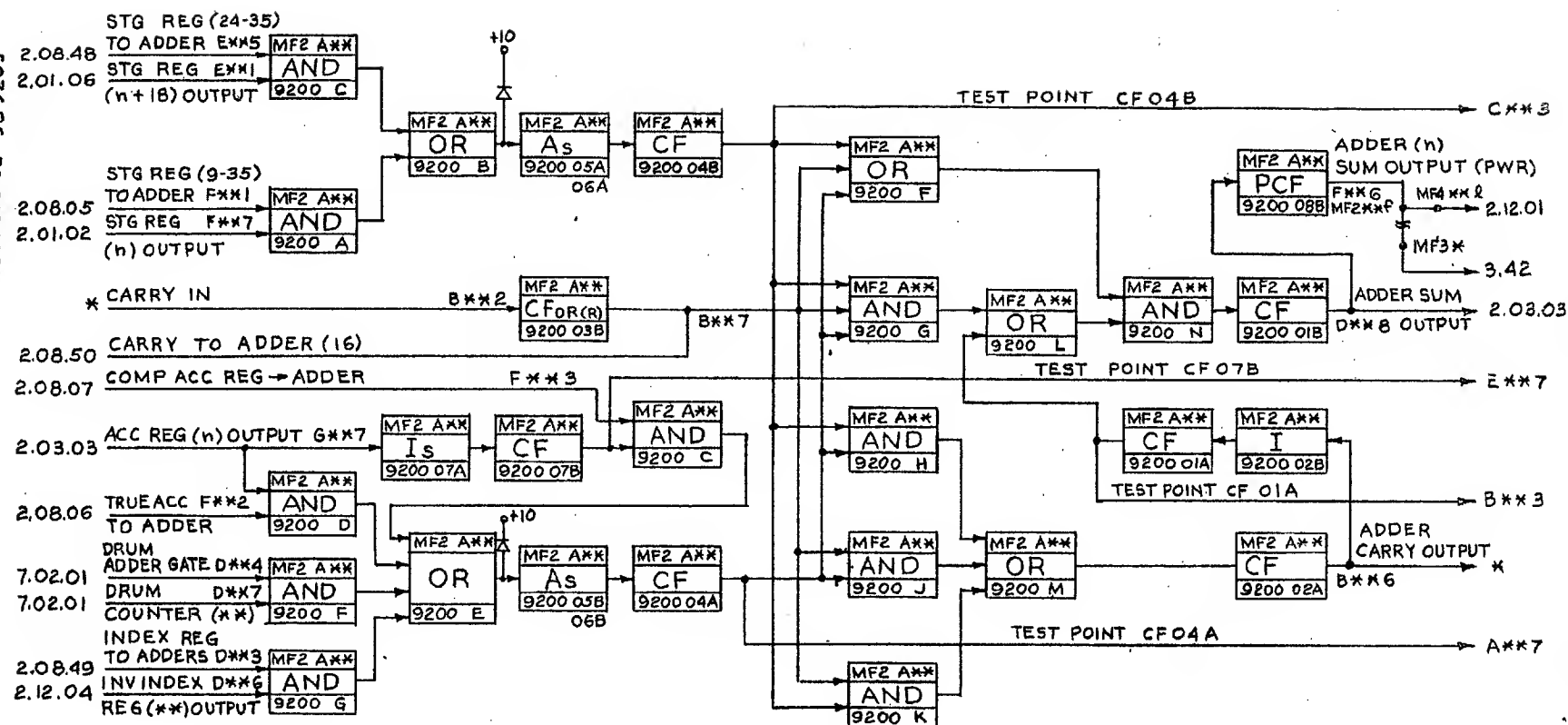
* SEE TABLE



ARITH. COLUMN NUMBER	18	19	20	22	23	24	26	27	28	30	31	32	34	35
PLUGGABLE UNIT LOCATION (**)	21	22	23	25	26	27	29	30	31	33	34	35	37	38
PLUGGABLE UNIT PART NO (YYYY)	9176	9176	9176	9170	9170	9170	9170	9170	9170	9170	9170	9170	9170	9170
ADDER CARRY OUTPUT (X) LOG. DIAGRAM NUMBER	2.02.06	2.02.08	2.02.08	2.02.07	2.02.08	2.02.08	2.02.09	2.02.08	2.02.08	2.02.09	2.02.08	2.02.08	2.02.09	2.02.08

503685 EC241399A



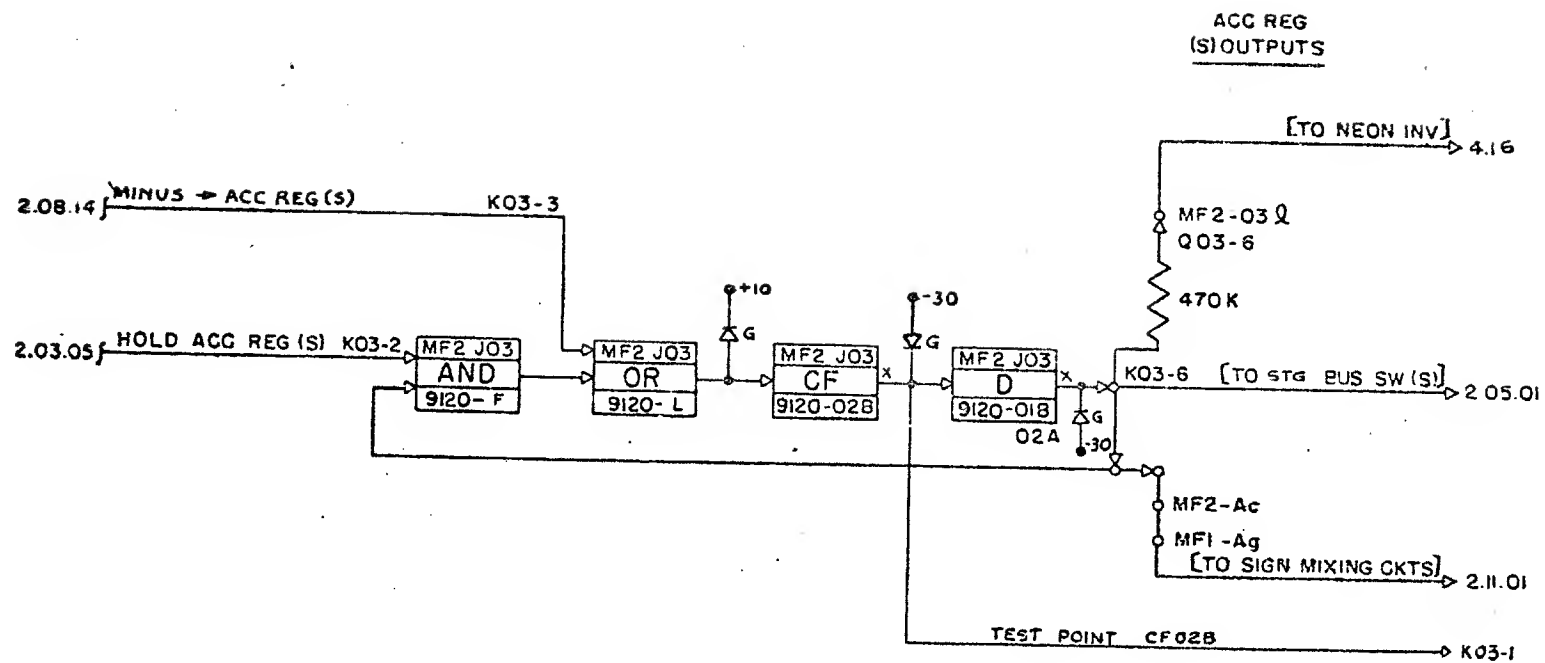


ARITHMETIC COL NO. (n)	DRUM COUNTER	INV INDEX REG OUTPUT	PLUGGABLE UNIT LOCATION (XX)	ADDER (n) CARRY OUTPUT LOG DIAGRAM NO.	ADDER (n) SUM OUTPUT (PWR) MF3 EDGE CONNECTOR	CARRY INPUT LOG DIAGRAM NO.
16	4	11	19	202.10	27q	202.06
15	5	10	18	202.07	27k	202.10

* SEE TABLE

ADDER & TRUE/COMP CNTLS COLS 15,16

2.02.10



WAS 104-506

STANDARDS
CODE
NONERELEASED
FOR ASSEM.
503626

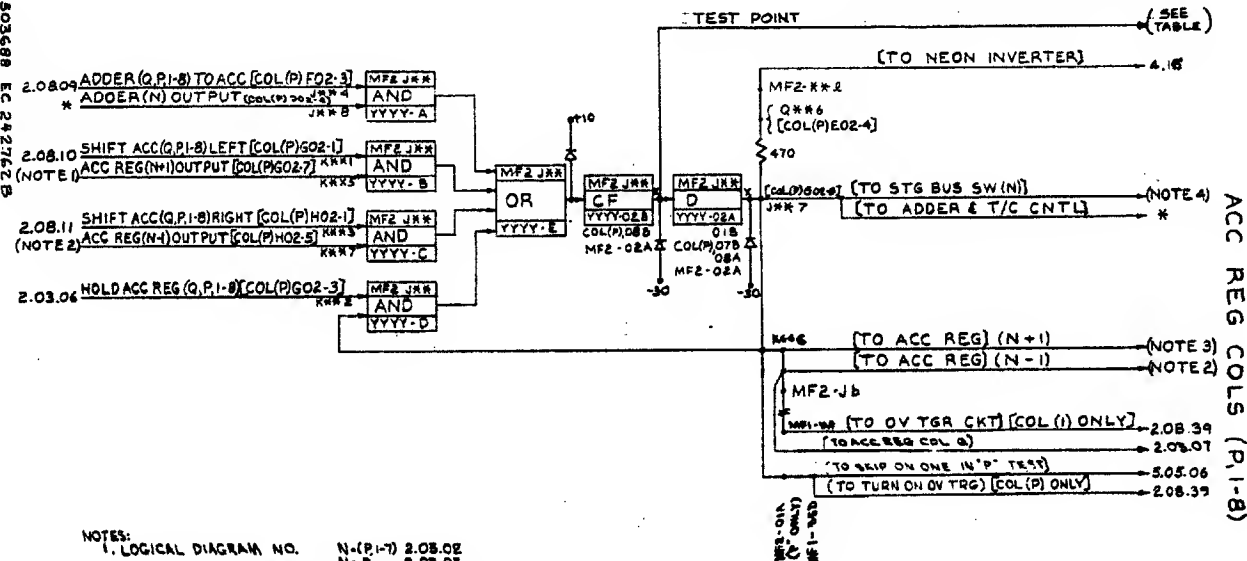
77

503688

DATE	CHANGE NO.
7-11-55	241399A
10-12-55	241830
1-16-56	242303
9-25-56	242762B

503688 EC 242762 B

ACC REG COL (N) OUTPUT



NOTES:

- LOGICAL DIAGRAM NO. N=(P1-7) 2.05.02
N=8 2.05.03
- LOGICAL DIAGRAM NO. N=P 2.05.07
N=(1-8) 2.05.02
N=0 2.05.03
- LOGICAL DIAGRAM NO. N=(P1-7) 2.05.02
N=8 2.05.03
N=0 2.05.03
- LOGICAL DIAGRAM NO. N=P 2.05.01
N=1,2 2.05.02
N=3-8 2.05.03

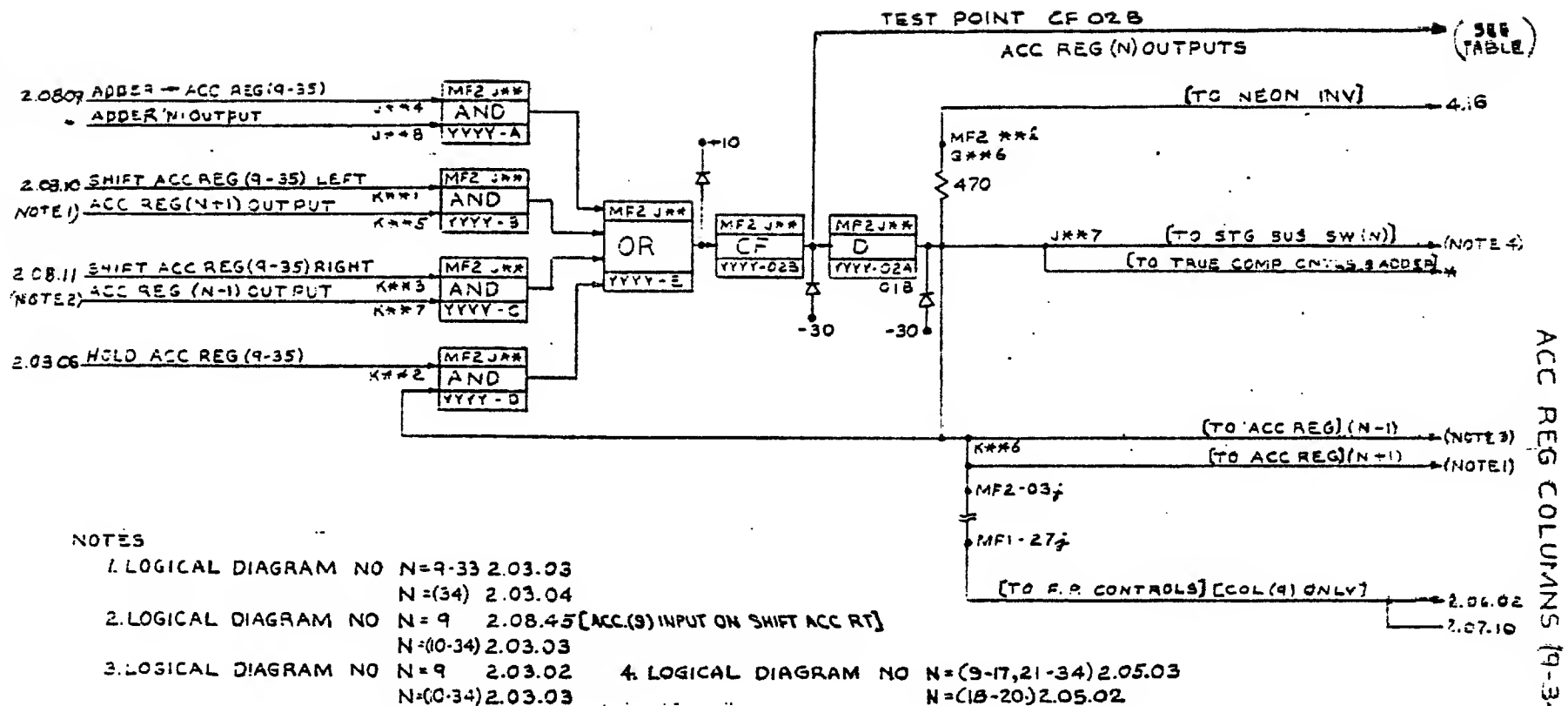
ARITHMETIC COLUMN NO (N)	P	1	2	3	4	5	6	7	8
PLUGGABLE UNIT LOCATION (KK)	02	04	05	06	07	08	09	10	11
PLUGGABLE UNIT PART NO. (YYYY)	9062	9065	9066	9067	9066	9067	9066	9067	9066
ADDER & T/C CNTL LOG DIAGRAM NO (M)	2.02.11	2.02.02	2.02.03	2.02.04	2.02.03	2.02.04	2.02.05	2.02.05	2.02.05
CATHODE FOLLOWER OLB TEST POINTS	G02-6	M04-7	M05-6	M06-6	M07-6	M08-6	M09-6	M10-6	M11-6

NOTE:
I PRINT TO ENG SPEC.
2M29

20302

NATIONAL SPECIFICATION	NO.	TOLERANCES UNLESS OTHERWISE NOTED	ALIGNMENT WITHIN	NOTE I	INTERNATIONAL BUSINESS MACHINES CORP.
CASE DEPTH		DECIMALS ± .005	CORRECTING WITHIN	NOTE II	BASE ELECTRONIC ANALYTICAL
HARDNESS		FRACTIONS ± .004	FLAT WITHIN	NOTE III	CONTROL UNIT MODEL 704
SURFACE TREATMENT		ANGLES ± °	PARALLEL WITHIN	NOTE IV	BASE SYSTEM DIAGRAM
		CHAMFERS	STRAIGHT WITHIN	NOTE V	2.03.02
		DRILLING	FINISH WITHIN	NOTE VI	SCALE 1/8" = 1"
		REWORK			DATE 6-2-55
					TRAC 0KM11-14.55
					APPROV 6-2-55
					DATE 1-17-55

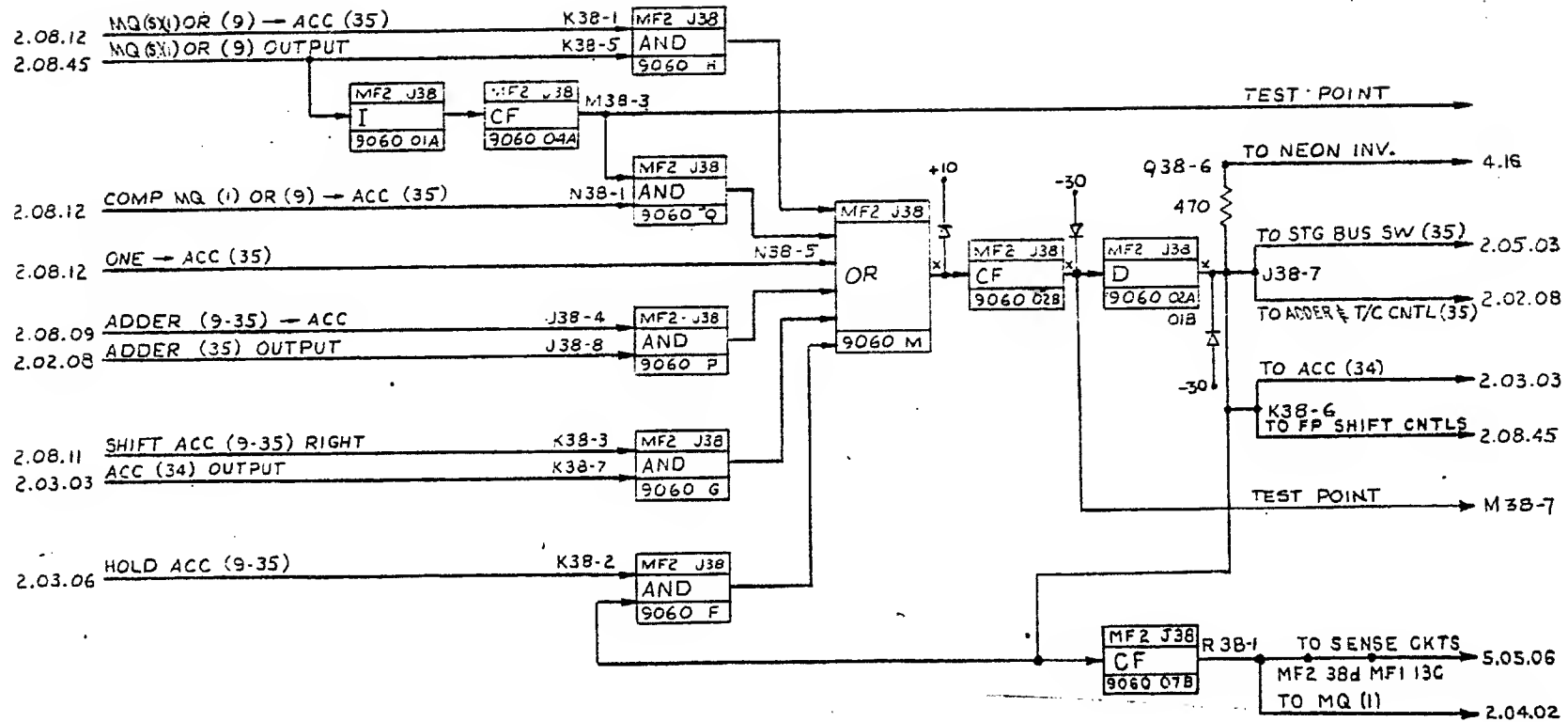
889205



ACC REG COLUMNS (9-34)

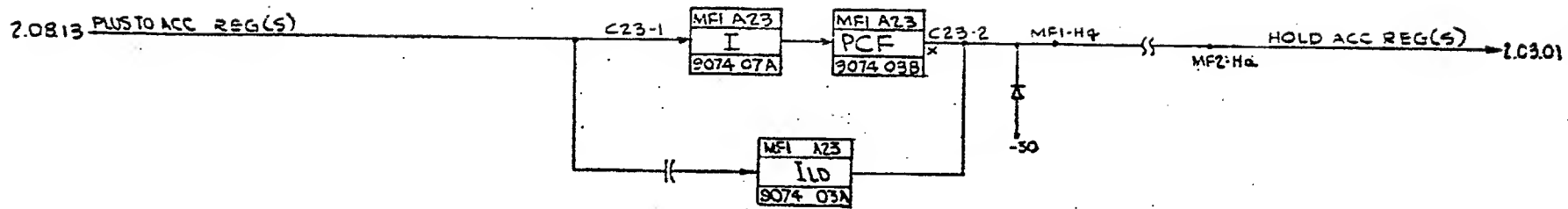
2.03.03

TEST POINT CF 02 B	M12-6	M13-6	M14-6	M15-6	M16-6	M17-6	M18-6	M19-6	M20-6	M21-7	M22-6	M23-7	M24-6	M25-7
ARITHMETIC COLUMN NO (N)	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PLUGGABLE UNIT LOCATION (**)	12	13	14	15	16	17	18	19	20	21	22	23	24	25
PLUGGABLE UNIT PART NO (YYYY)	7611	7610	7611	7610	7611	7610	7611	7610	7611	9180	9179	9180	9182	9181
TO ADDER & T/C CNTLS LOG DIA. NO (*)	2.02.06	2.02.07	2.02.07	2.02.07	2.02.06	2.02.07	2.02.10	2.02.10	2.02.06	2.02.08	2.02.08	2.02.08	2.02.09	2.02.05
ARITHMETIC COLUMN NO (N)	23	24	25	26	27	28	29	30	31	32	33	34		
PLUGGABLE UNIT LOCATION (**)	26	27	28	29	30	31	32	33	34	35	36	37		
PLUGGABLE UNIT PART NO (YYYY)	9182	9181	9182	9181	9182	9181	9182	9181	9182	9181	9182	9181		
TO ADDER & T/C CNTLS LOG DIA. NO (*)	2.02.08	2.02.08	2.02.09	2.02.08	2.02.08	2.02.08	2.02.09	2.02.08	2.02.08	2.02.08	2.02.09	2.02.08		
TEST POINT CF 02 B	M26-6	M27-7	M28-6	M29-7	M30-6	M31-7	M32-6	M33-7	M34-6	M35-7	M36-6	M37-7		

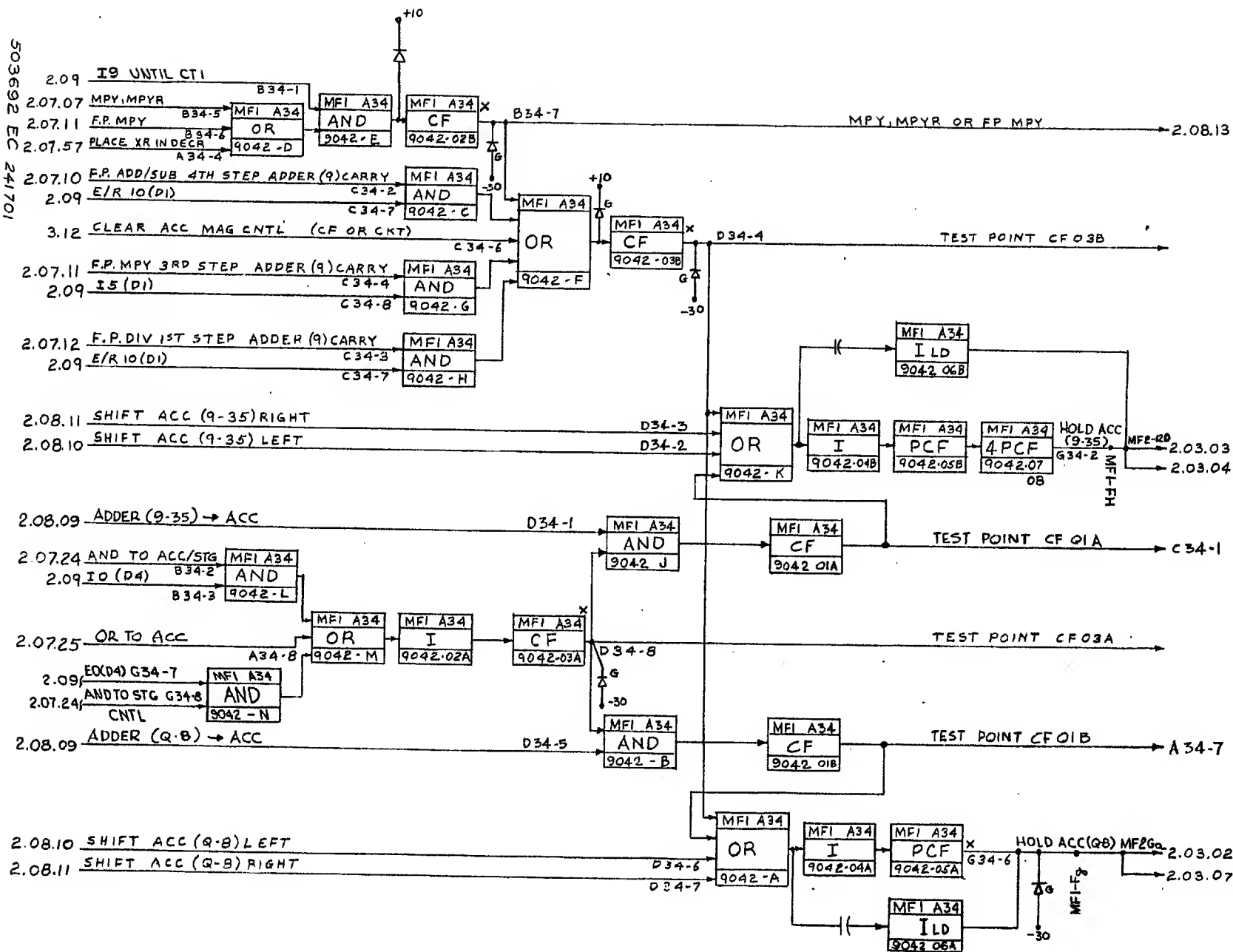


ACC REG COL (35)

2.03.04



503692 EC 241701



ACC REG (Q,P,I-35) HOLD CIRCUITS

2.03.06

WAS 704-3064

DATE	CHANGE IN
7-11-55	241399A
8-1-56	242762
9-25-56	242762B

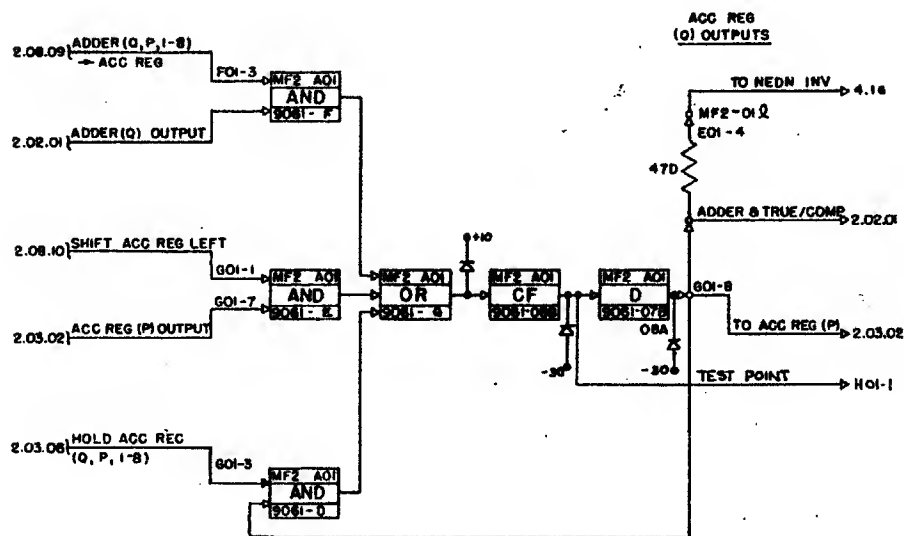
1

503693

NOTE
X PRINT TO ENG. SPEC.
895291

ACC REG COLUMN (Q)

2.03.07

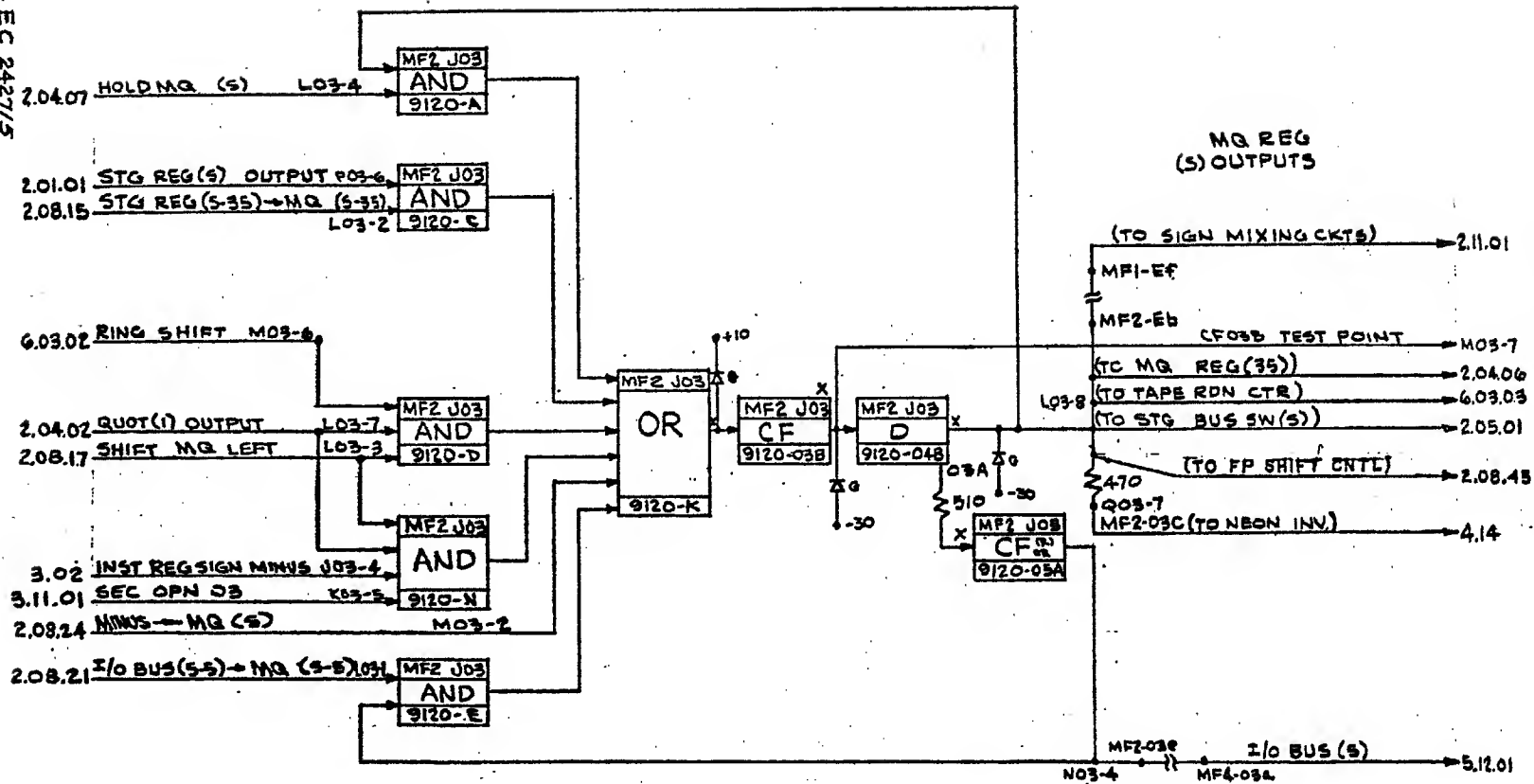


503693 EC 242762-B

[illegible]

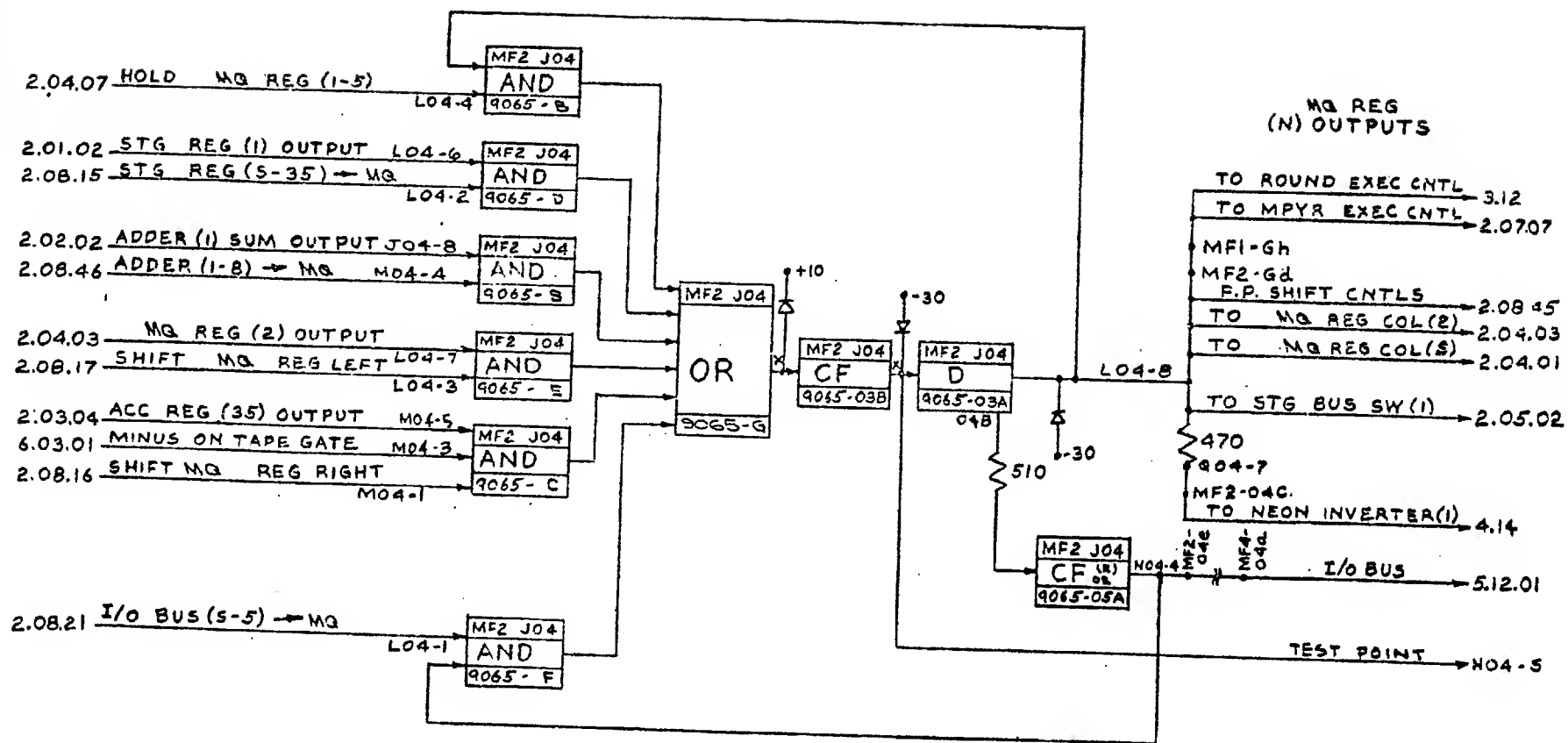
503693

503694 EC 2427/5



MQ REG COLUMN(S)

2.04.01

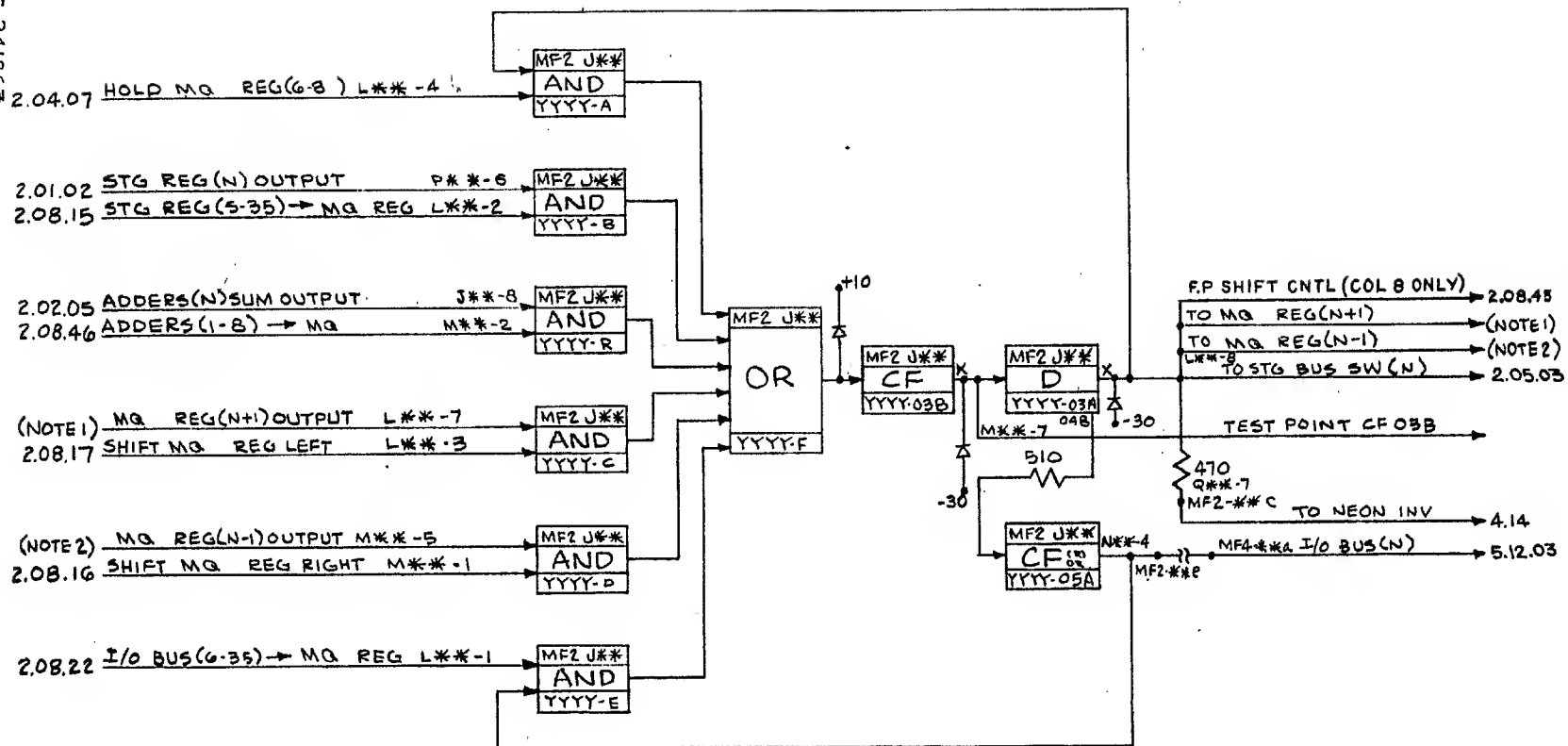




1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

* SEE TABLE

ARITH. COLUMN NUMBERS (N)	2	3	4	5
PLUGGABLE UNIT LOC. (* *)	05	06	07	08
PLUGGABLE UNIT PART NO. (YYYY)	9066	9067	9066	9067
ADDER (N) SUM OUTPUT LOG. DIAGRAM NO. (X)	2.02.03	2.02.04	2.02.03	2.02.04
OUTPUT TO BUS SW. (N) 5%	2.05.02	2.05.03	2.05.03	2.05.03



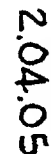
NOTES:

1. N=6,7 LOGICAL NO. IS 2.04.04
 N=8 LOGICAL NO. IS 2.04.05
 2. N=6 LOGICAL NO. IS 2.04.03
 N=7,8 LOGICAL NO. IS 2.04.04

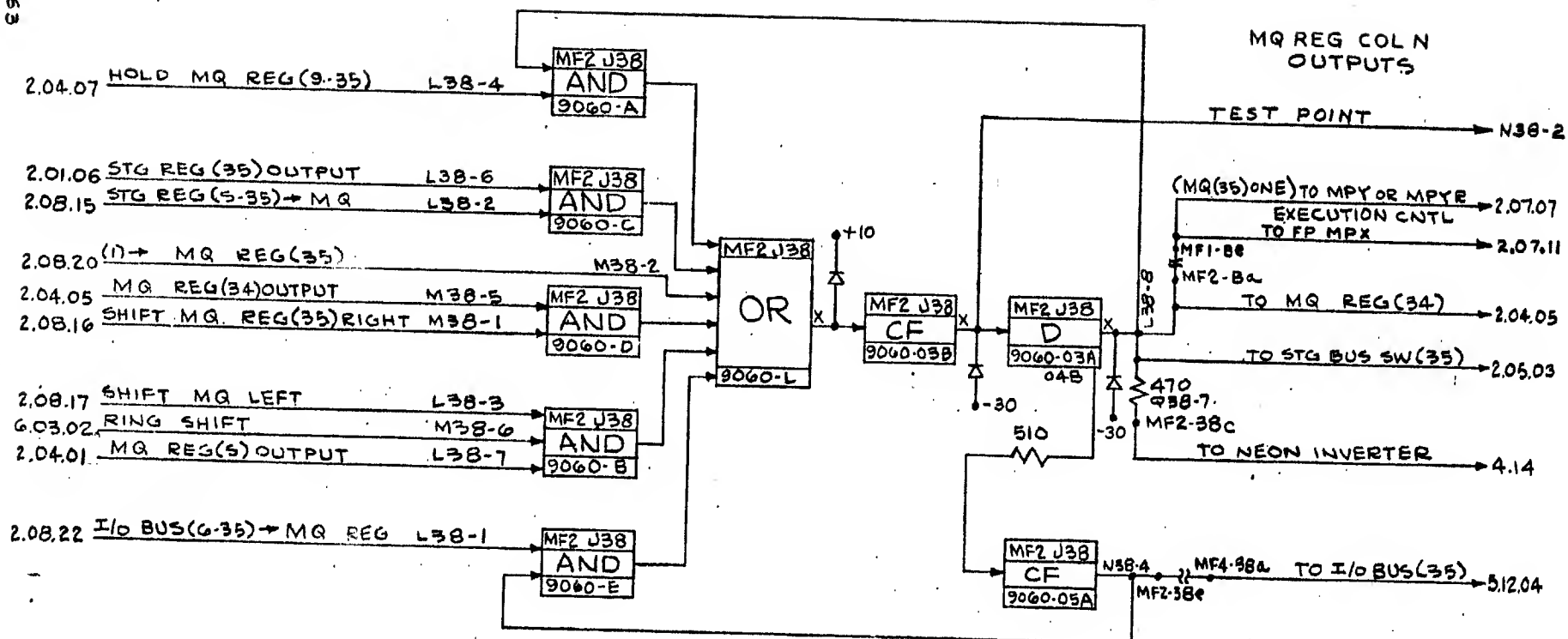
ARITHMETIC COL. NO.(N)	6	7	8
PLUGGABLE UNIT LOCATION(***)	9	10	11
PLUGGABLE UNIT PART NO.(YYYY)	9066	9067	9066

MQ REG COL 6-8

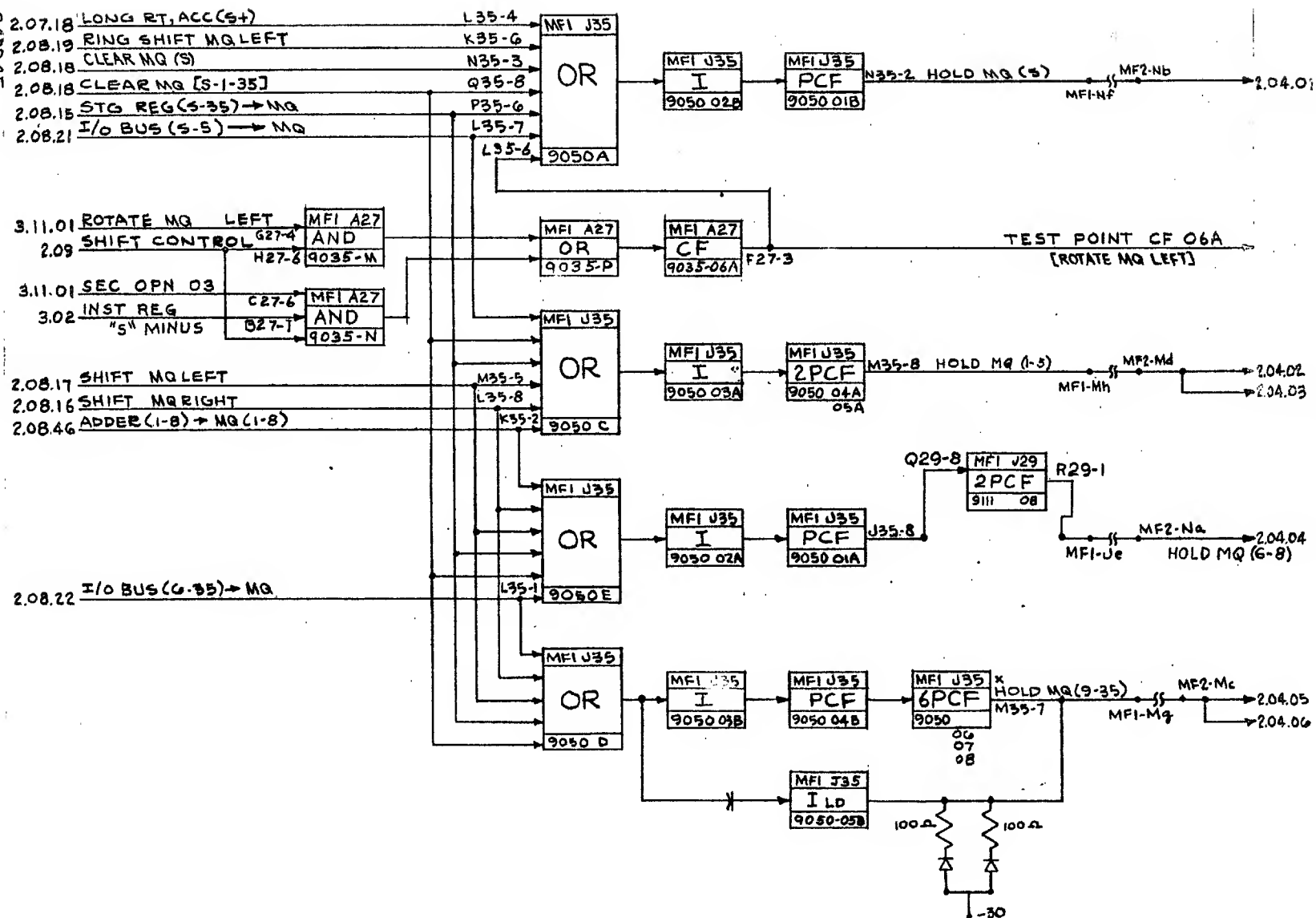
2.04.04



ARITHMETIC COL NO.(N)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
PLUGGABLE UNIT LOCATION ***	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
PLUGGABLE UNIT PART NO. TTTT	7611	7610	7611	7610	7611	7610	7611	7610	7611	9180	9179	9180	9182	9181	9182	9181	9182	9181	9182	9181	9182	9181	9182	9181	9182	9181
TEST POINT CF Q3B	M12-7	M13-7	M14-7	M15-7	M16-7	M17-7	M18-7	M19-7	M20-7	M21-6	M22-3	M23-6	M24-3	M25-6	M26-3	M27-6	M28-3	M29-6	M30-3	M31-6	M32-3	M33-6	M34-3	M35-6	M36-3	M37-6



503700 EC 242945



MQ REGISTER COLS (5,10,15) HOLD CIRCUITS 2.04.07

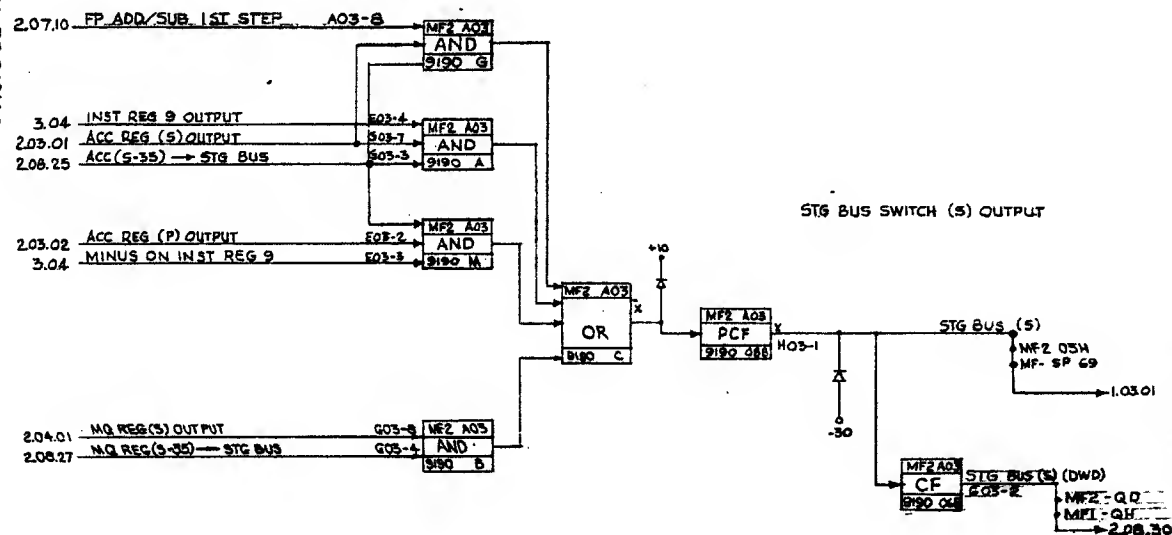
WAL 104-311

STANDARD CODE	RELEASED FOR ASSEMBLY	DATE	CHANGE NO.
NONE	503626	7-11-55	241399A
		8-17-55	241587
		9-14-55	241700
		9-17-56	243760

503701

DATE	CHANGE NO.
7-11-55	241399A
8-17-55	241587
9-14-55	241700
9-17-56	243760

503701 EC 243160



STORAGE BUS SWITCHING COLUMN 5

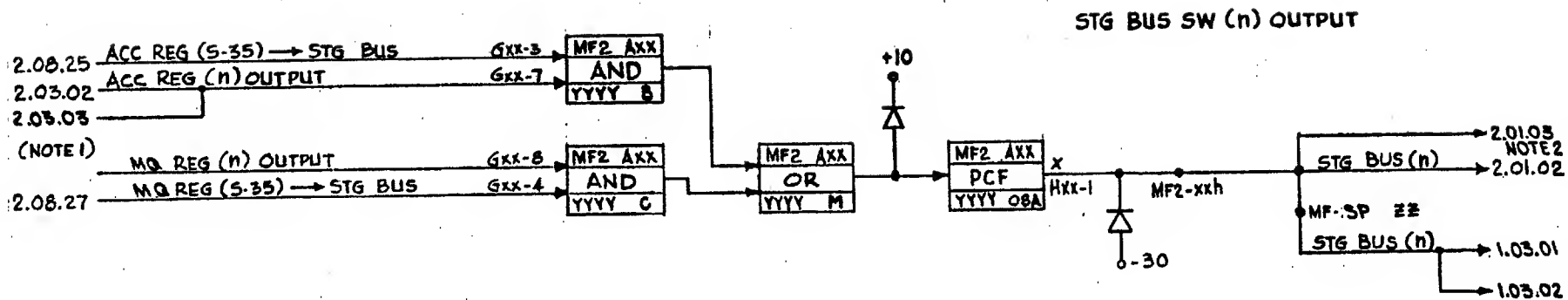
2.05.01

503701

NOTE:
X PRINT TO ENG SPEC
695281

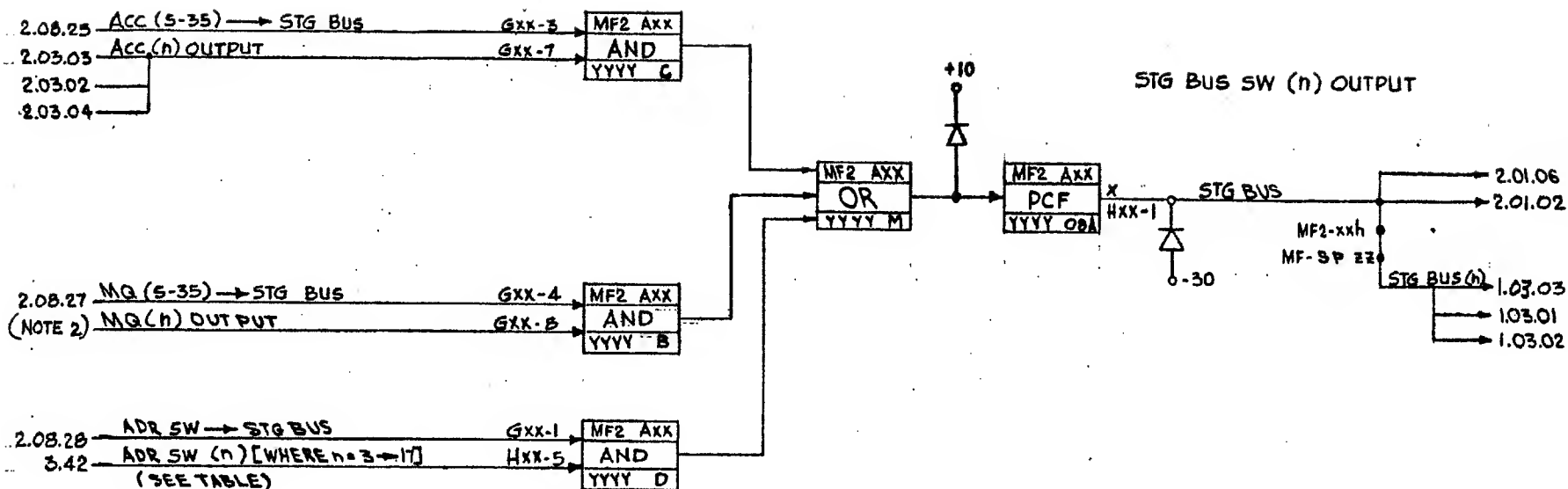
INTERNAL SPECIFICATION NO.		TELEGRAPHED UNLESS OTHERWISE NOTED		ALIGNMENT WITHIN		NOTE 1	
SHEET NO.		DIMENSIONS & TOL.		SURFACE FINISH		NOTE 2	
HANDWRITING		FRONT VIEW & 1/4"		FLAT FINISH		NOTE 3	
SURFACE TREATMENT		SPR. NO.		PARALLEL WITHIN		NOTE 4	
		TOL. MAX.		STRAIGHT WITHIN		NOTE 5	
		APPRO. DATE		SQUARE WITHIN		NOTE 6	
						NOTE 7	
						NOTE 8	
						NOTE 9	
						NOTE 10	

503701



ARITH COL NO (n)	PLUGGABLE UNIT LOCATION (xx)	PLUGGABLE UNIT PART NO (YYYY)	CONNECTOR MF-SP 1(ZZ)
1	04	9028	85
2	05	9026	101
18	21	9176	76
19	22	9176	92
20	23	9176	108

NOTE 1: COL (1) SYSTEMS DWG 2.04.02
 COL (2) SYSTEMS DWG 2.04.03
 COL (18-20) SYSTEMS DWG 2.04.05
 NOTE 2: FOR 18, 19 & 20 ONLY



ARITH COL NO (n)	PLUGGABLE UNIT LOCATION (XX)	PLUGGABLE UNIT PART NO (YYYY)	CONNECTOR MF-SP 1 (ZZ)	ADR SW (N)	ARITH COL NO (n)	PLUGGABLE UNIT LOCATION (XX)	PLUGGABLE UNIT PART NO (YYYY)	CONNECTOR MF-SP (ZZ)	ADR SW (N)
3	06	9027	117	NOTE 3	21	24	9171	124	NOTE 3
4	07	9177	133	NOTE 3	22	25	9170	140	NOTE 3
5	08	9027	149	NOTE 1	23	26	9170	128	NOTE 1
6	09	9024	78	6	24	27	9170	65	6
7	10	9024	94	7	25	28	9171	81	7
8	11	9024	110	8	26	29	9170	97	8
9	12	9023	126	9	27	30	9170	113	9
10	13	9025	142	10	28	31	9170	129	10
11	14	9025	119	11	29	32	9171	144	11
12	15	9025	67	12	30	33	9170	74	12
13	16	9023	83	13	31	34	9170	90	13
14	17	9025	99	14	32	35	9170	106	14
15	18	9200	115	15	33	36	9171	122	15
16	19	9200	131	16	34	37	9170	138	16
17	20	9023	147	17	35	38	9170	135	17

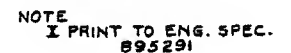
NOTE 1: ARITH COL 5 IS WIRED TO ADR SW5
FOR 2 CORE FRAME OPN (-30 REMOVED)

NOTE 2: COL (3-5) SYSTEM DWG. 2.04.03
COL (6-8) SYSTEM DWG. 2.04.04
COL (9-17) SYSTEM DWG. 2.04.05
COL (21-34) SYSTEM DWG. 2.04.05
COL (35) SYSTEM DWG. 2.04.06

NOTE 3: HXX5 CONNECTED TO -30 FOR COL (3-5) & (21-23)

WAS 704-3079

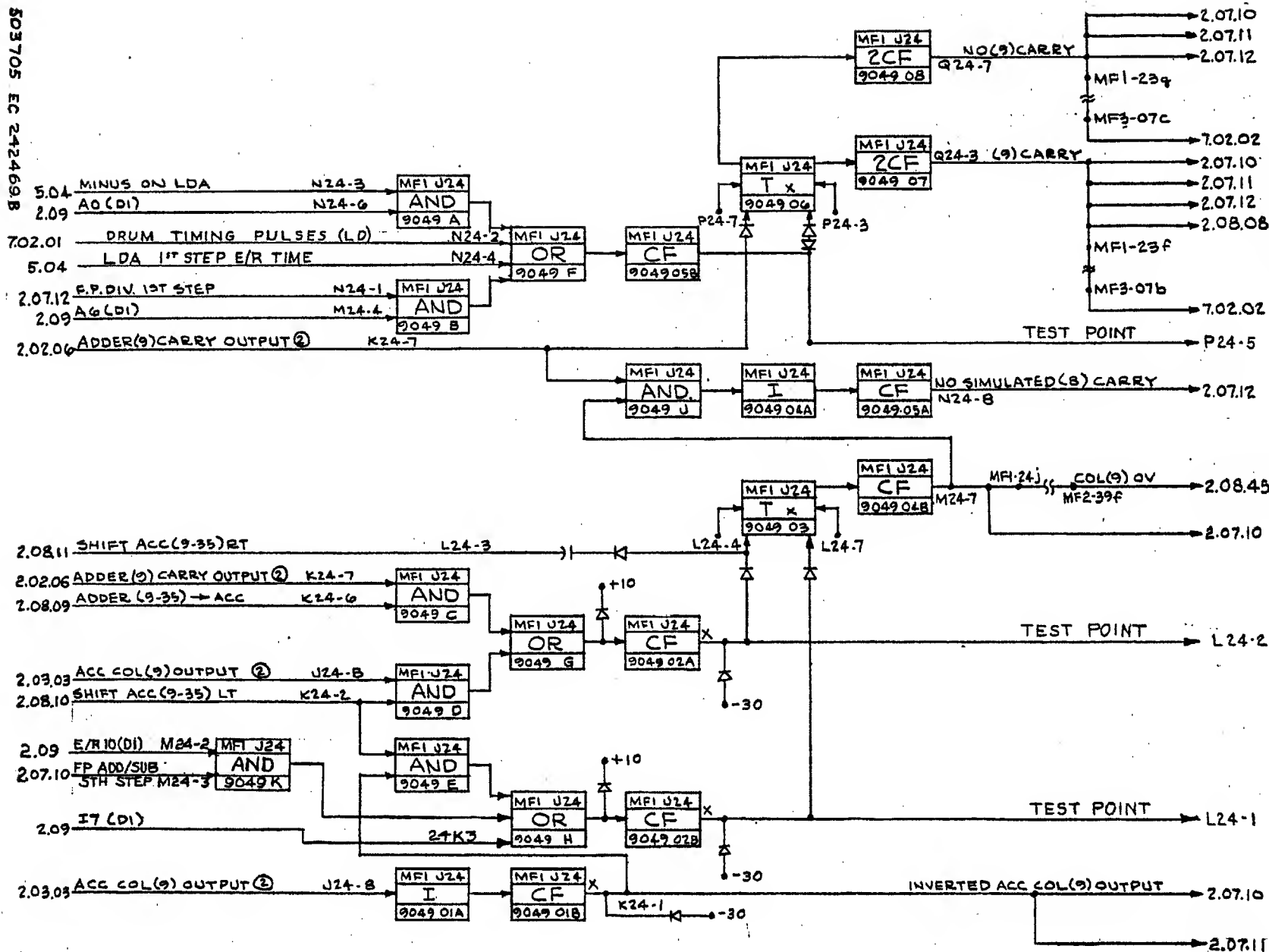
2.06.01



NATIONAL SPECIFICATION NO.		TOLERANCES UNLESS OTHERWISE NOTED		ALIGNMENT WITH		NOTE I	INTERNATIONAL BUSINESS MACHINES CORP.
CASE DEPTH		RECTANGULAR ± .005		CONCENTRIC WITH		NOTE II	RANGE
		PRAGMATIC ± .014		FLAT WITHIN		NOTE III	ELECTRONIC ANALYTICAL CONTROL UNIT MODEL 704
HARDNESS		ANGLES ± 1°		PARALLEL WITHIN		NOTE IV	RANGE
		SURFACE TREATMENT		STRATANT WITHIN		NOTE V	2.04.01
SPEC. NO.		OUTSIDE		SQUARE WITHIN		NOTE VI	SCALE
TECH. MEMORANDUM		CONVEX		HORIZONTAL		NOTE VII	C/C 7-15-54
DATE		CONCAVE		VERTICAL		NOTE VIII	TRIAL J 1-15-54
		ROUND		SLOPE		NOTE IX	DIFF. 1-15-54
						NOTE X	CHG SHS 8-19-54

503704

503705 EC 242469B

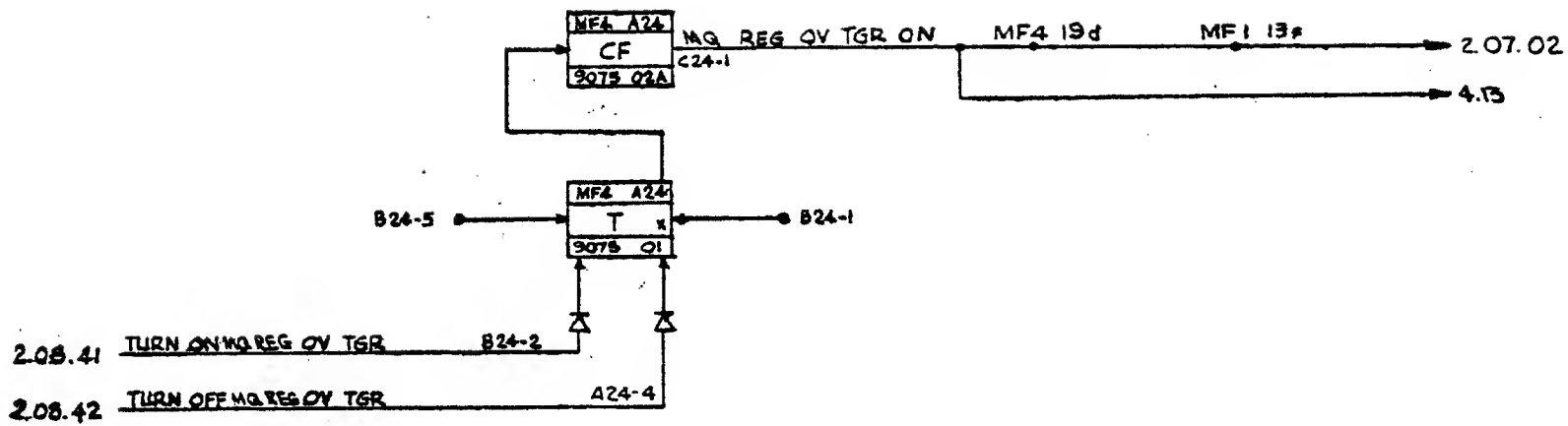


COLUMN(9) CARRY & OVERFLOW TRIGGERS

2.06.02

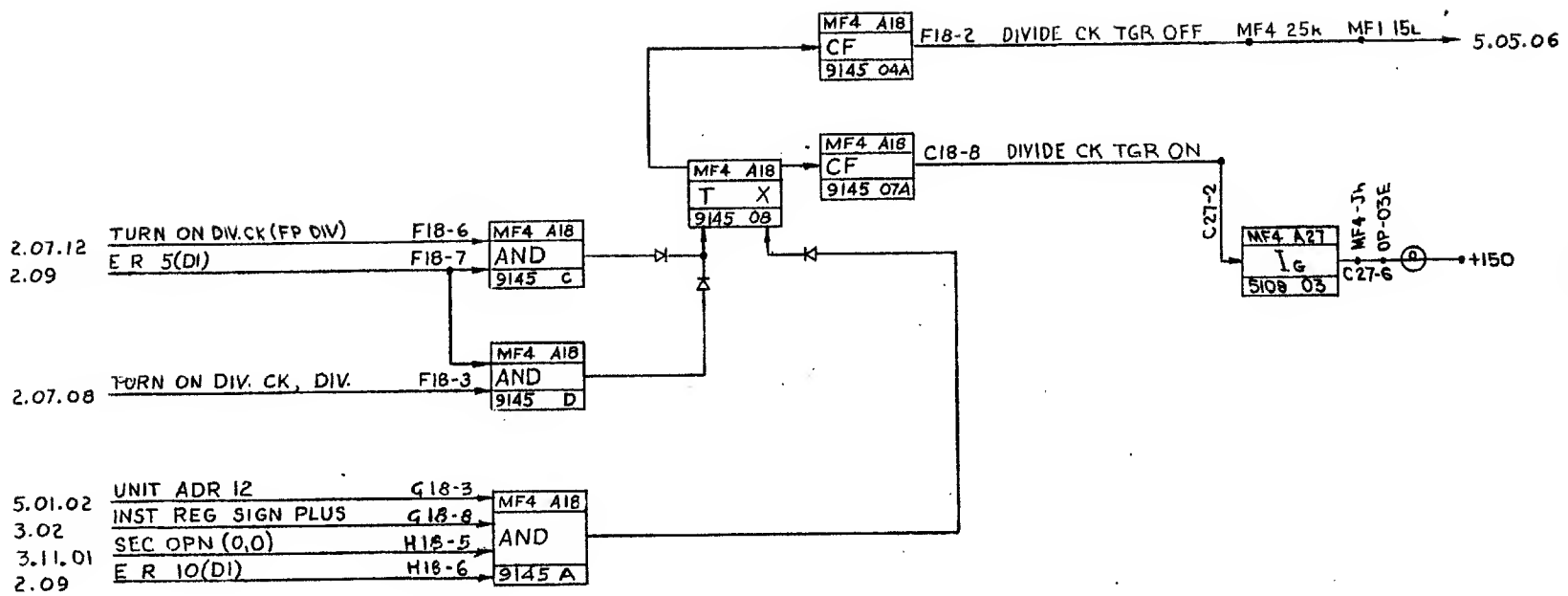
MQ REG OVERFLOW TRIGGER

2.06.03

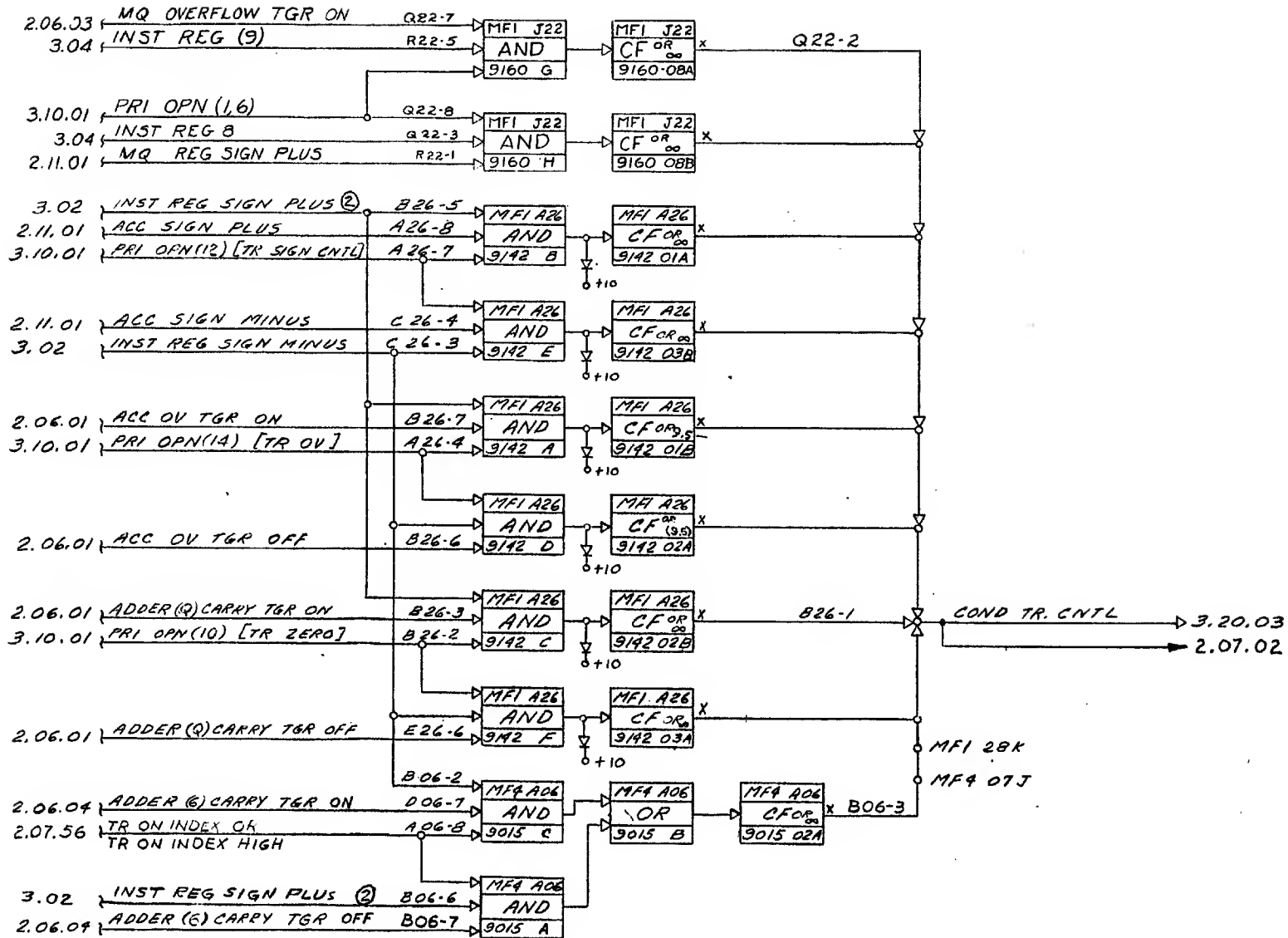


DIVIDE CHECK TGR.

2.06.05



503708 EC 241315

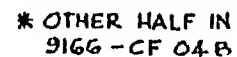


COND TR EXEC CNTL

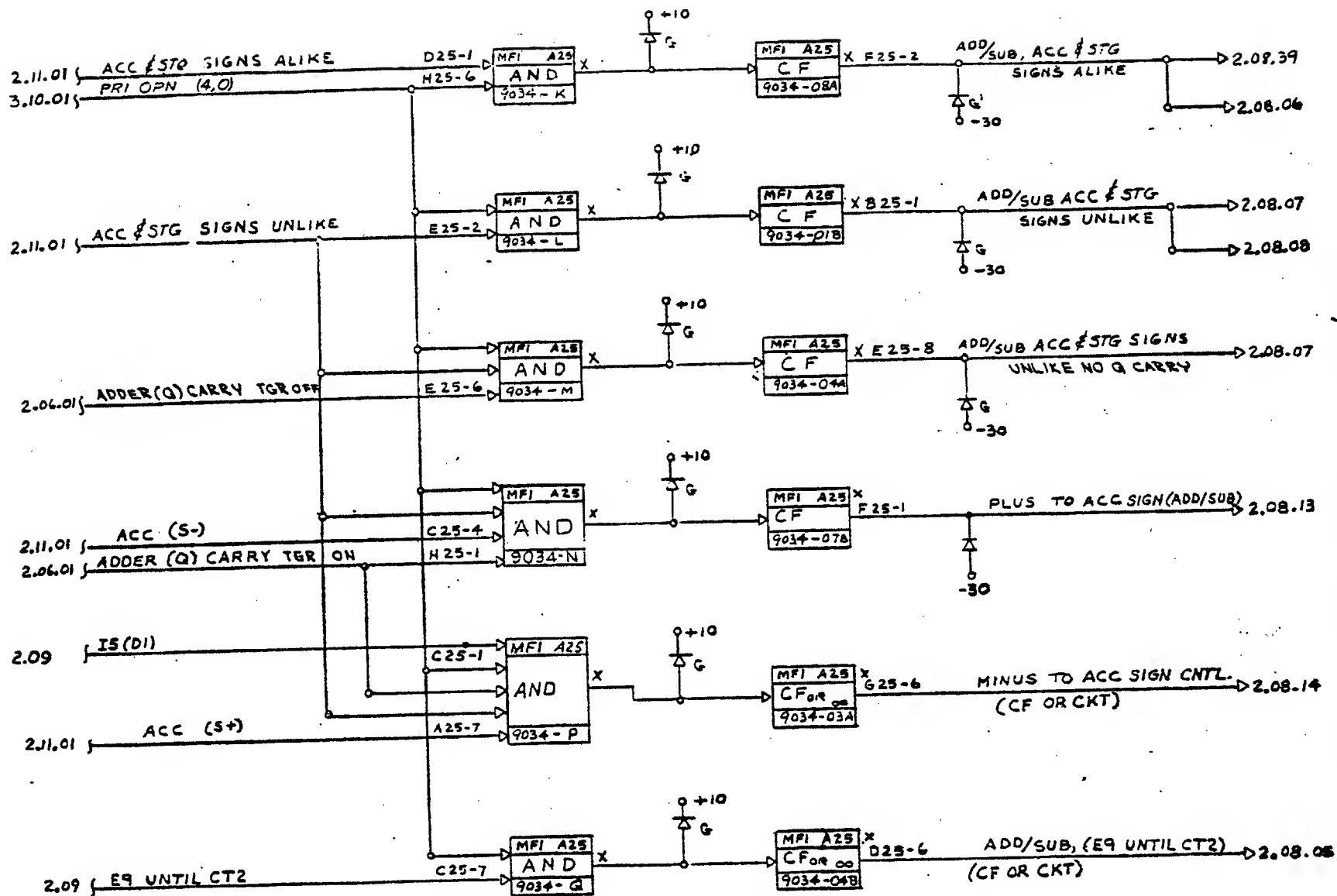
2.07.02

SHEET 1 OF 2

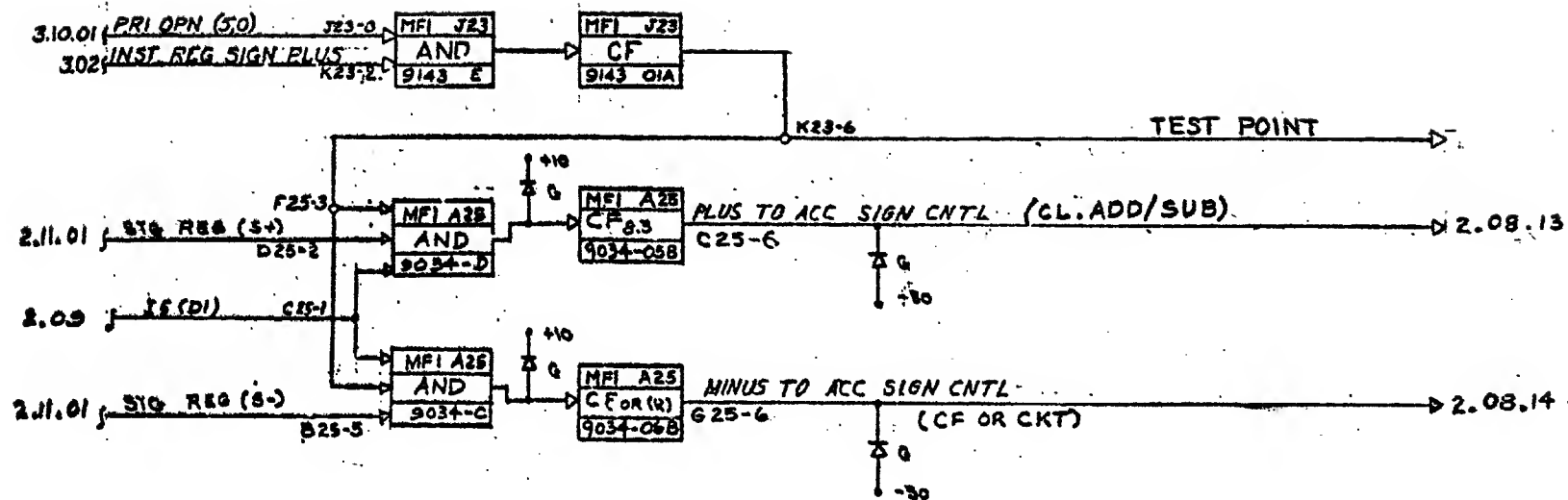
SHEET 2 OF 2



* OTHER HALF IN
9166 - CF 04B

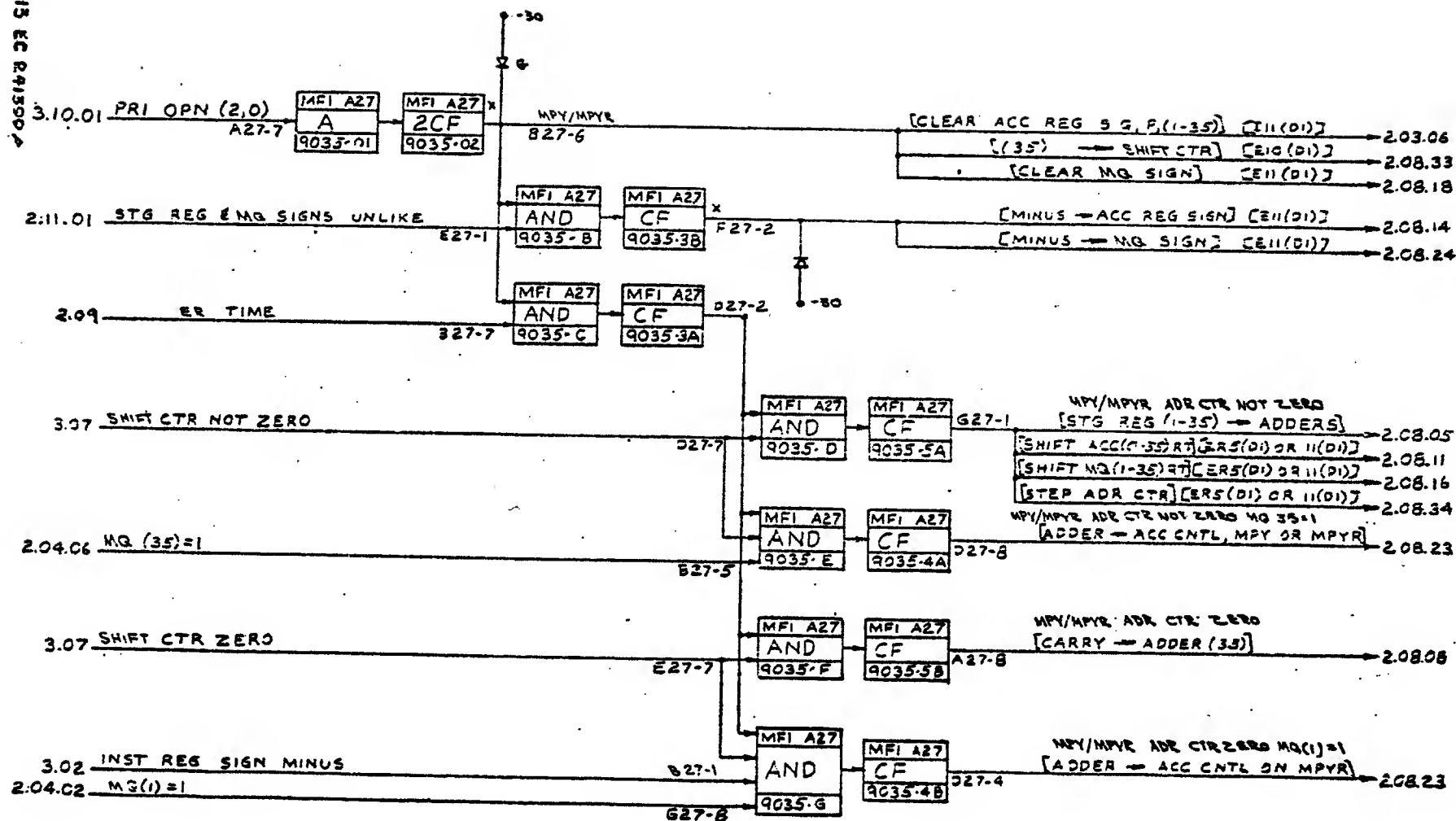


ADD/SUB EXECUTION CONTROL 2.07.04



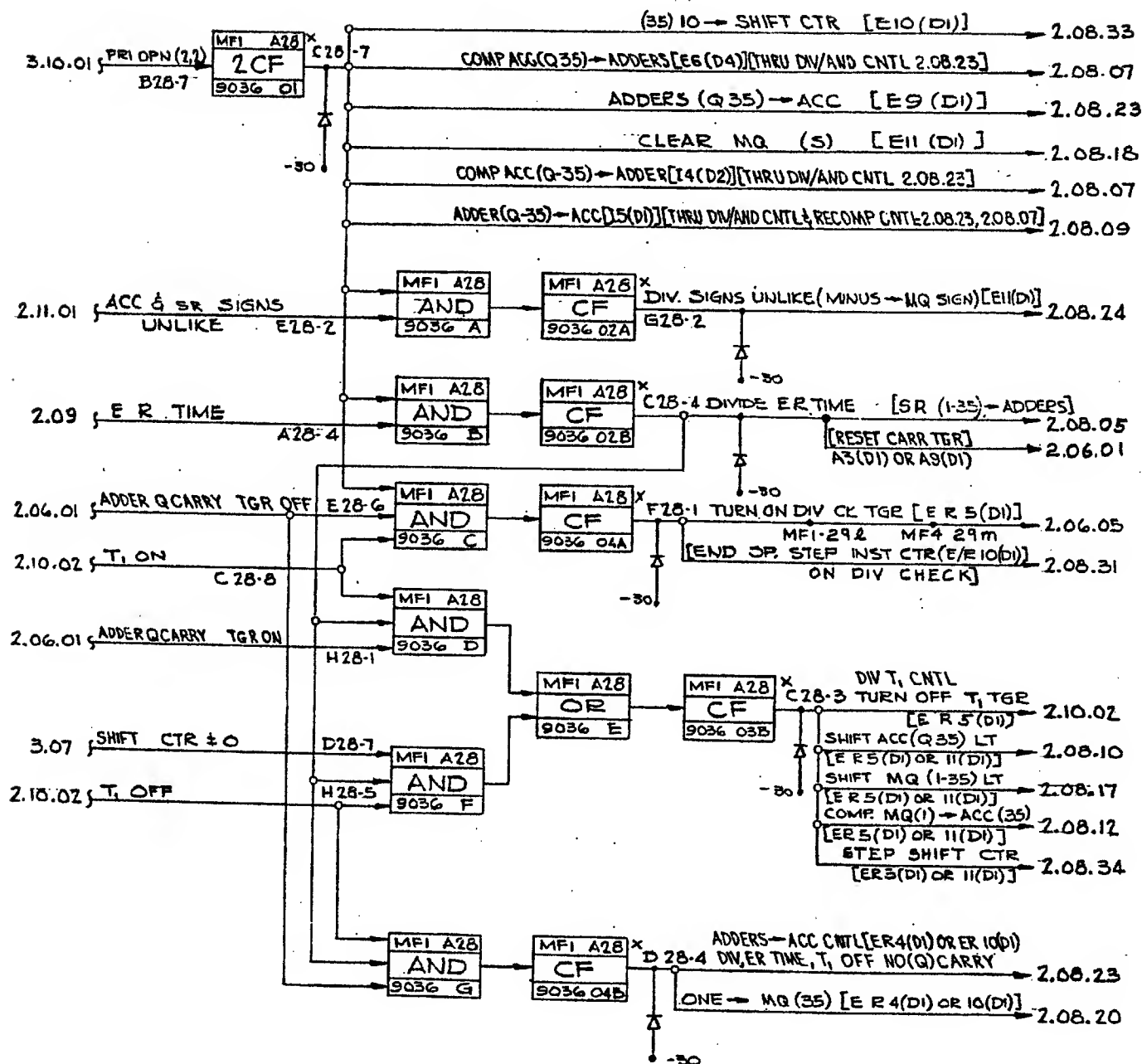
CLEAR & ADD/SUB EX CNTL

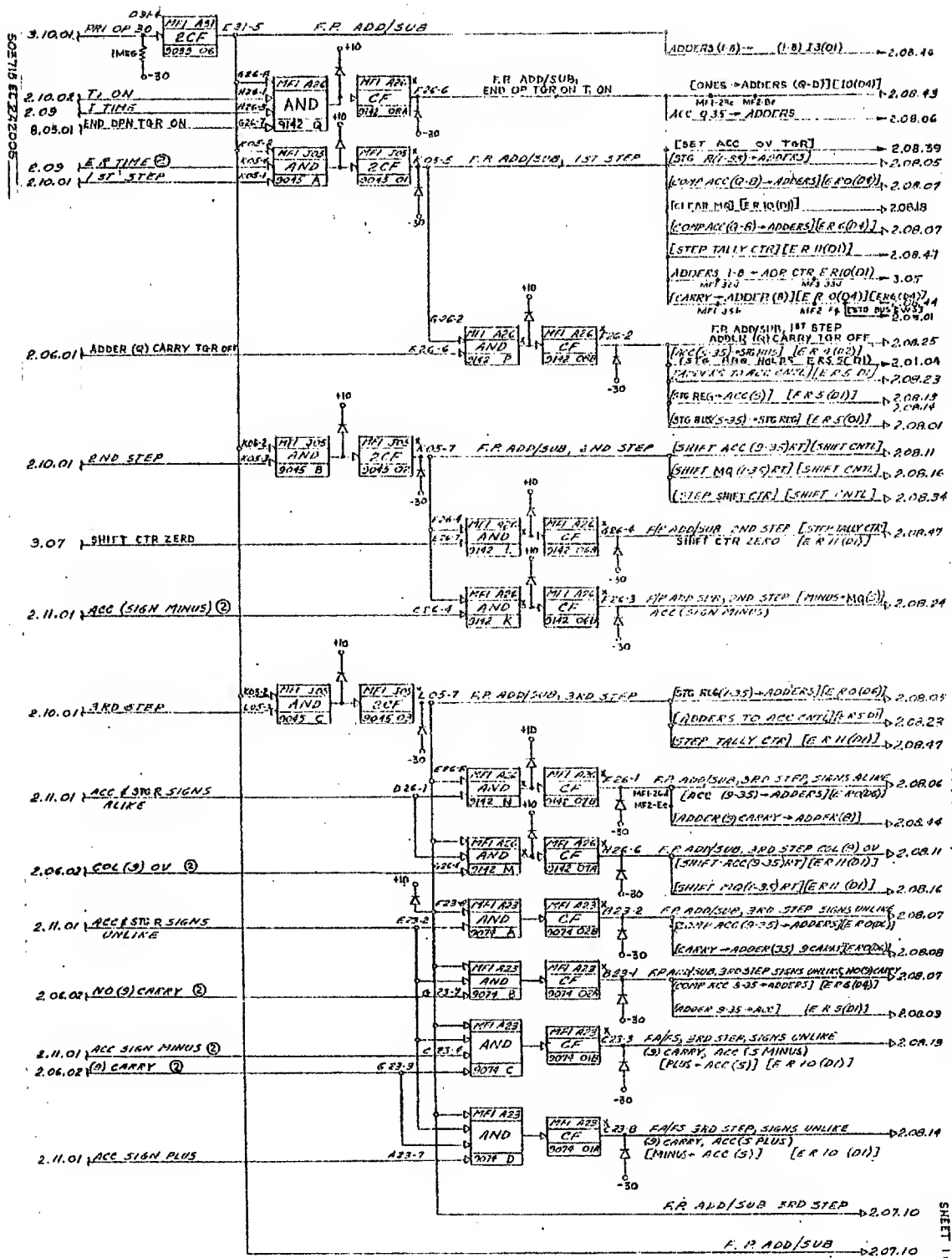
2.07.05



MPY/MPYR EXEC CNTLS

2.07.07

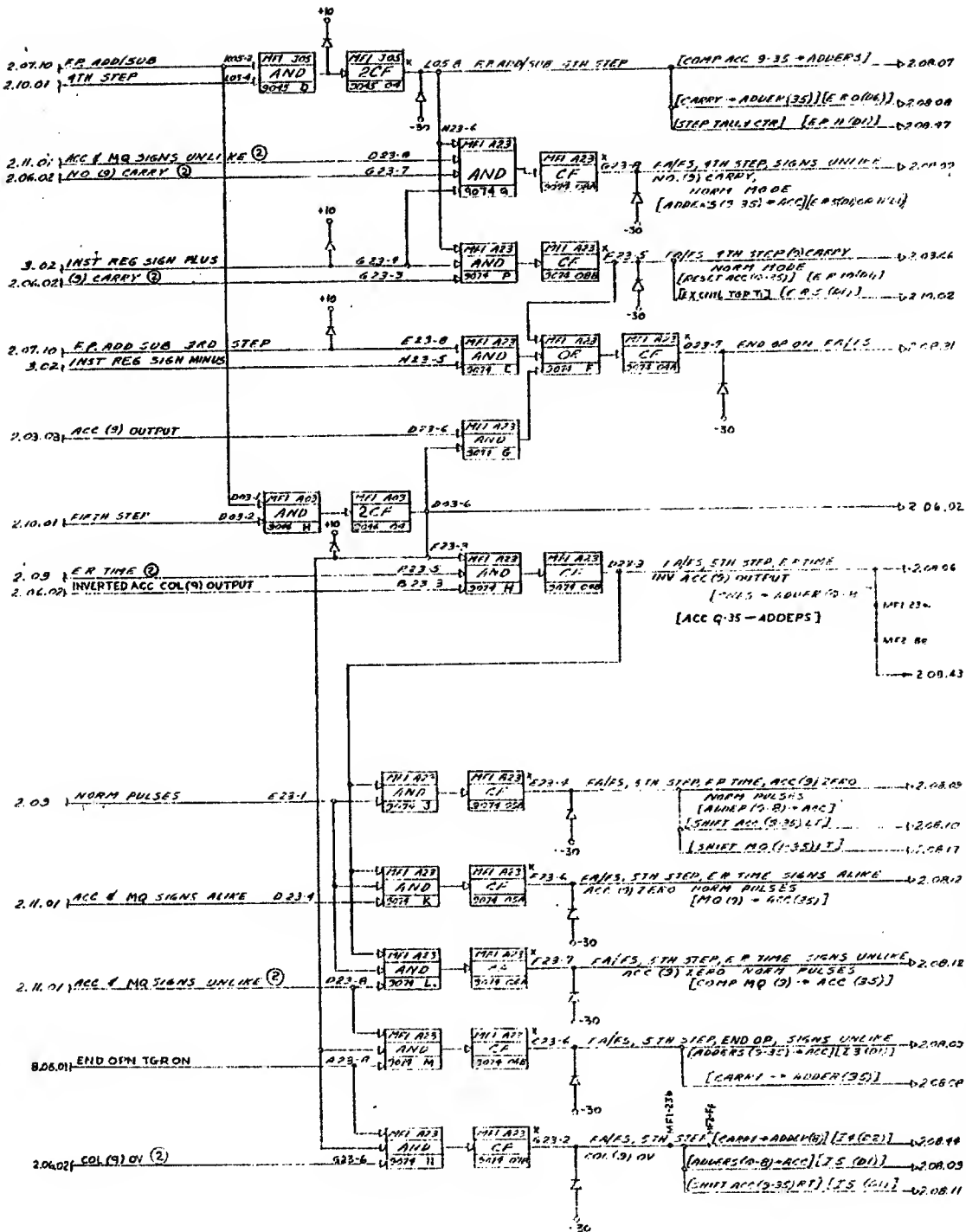




F.P. ADD/SUB EXEC CNTLS

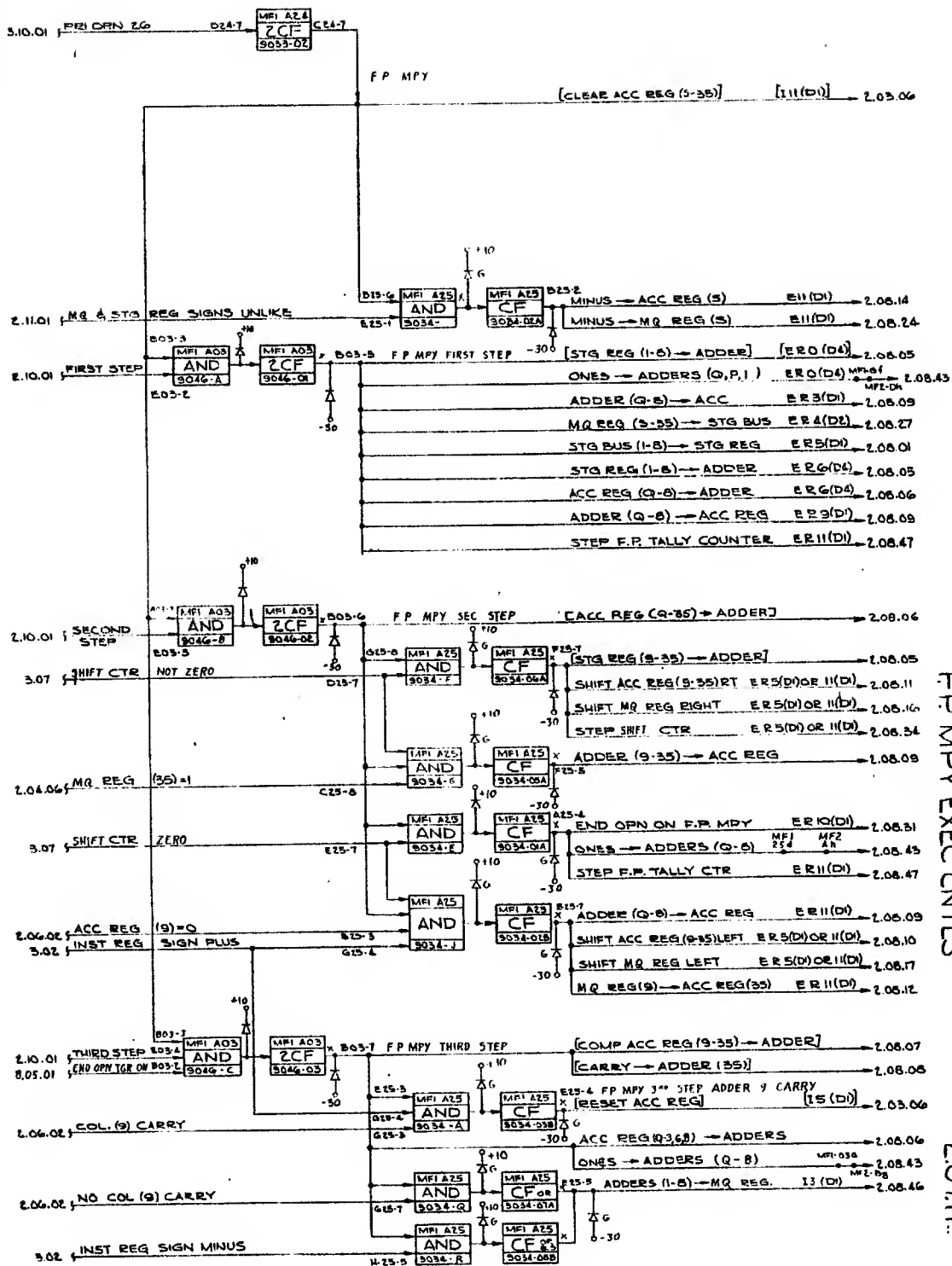
2.07.10
SHEET 1 OF 2

503716 EC 4-18-60



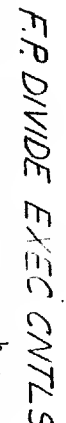
FP ADD/SUB EXEC CNTLS

2.07.10
SHEET 2 OF 2



F.P. MPY EXEC CNTLS

2.0711.

[illegible]

NONE 503626

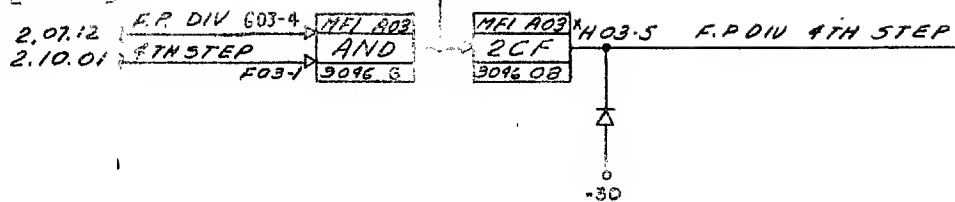
503718

NONE 503626

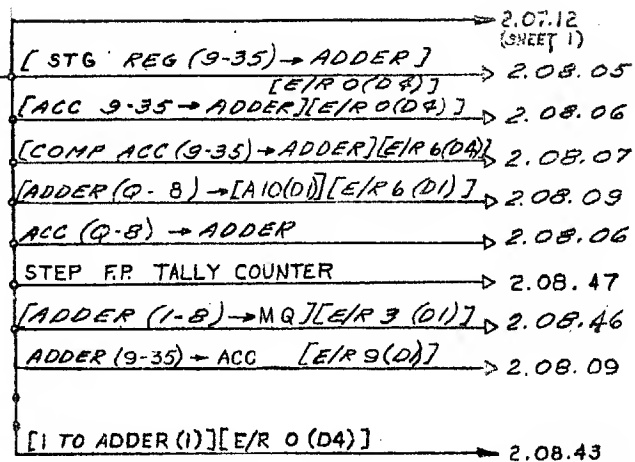
503718

808719 EQ 2A2764-A

[SHEET 1]



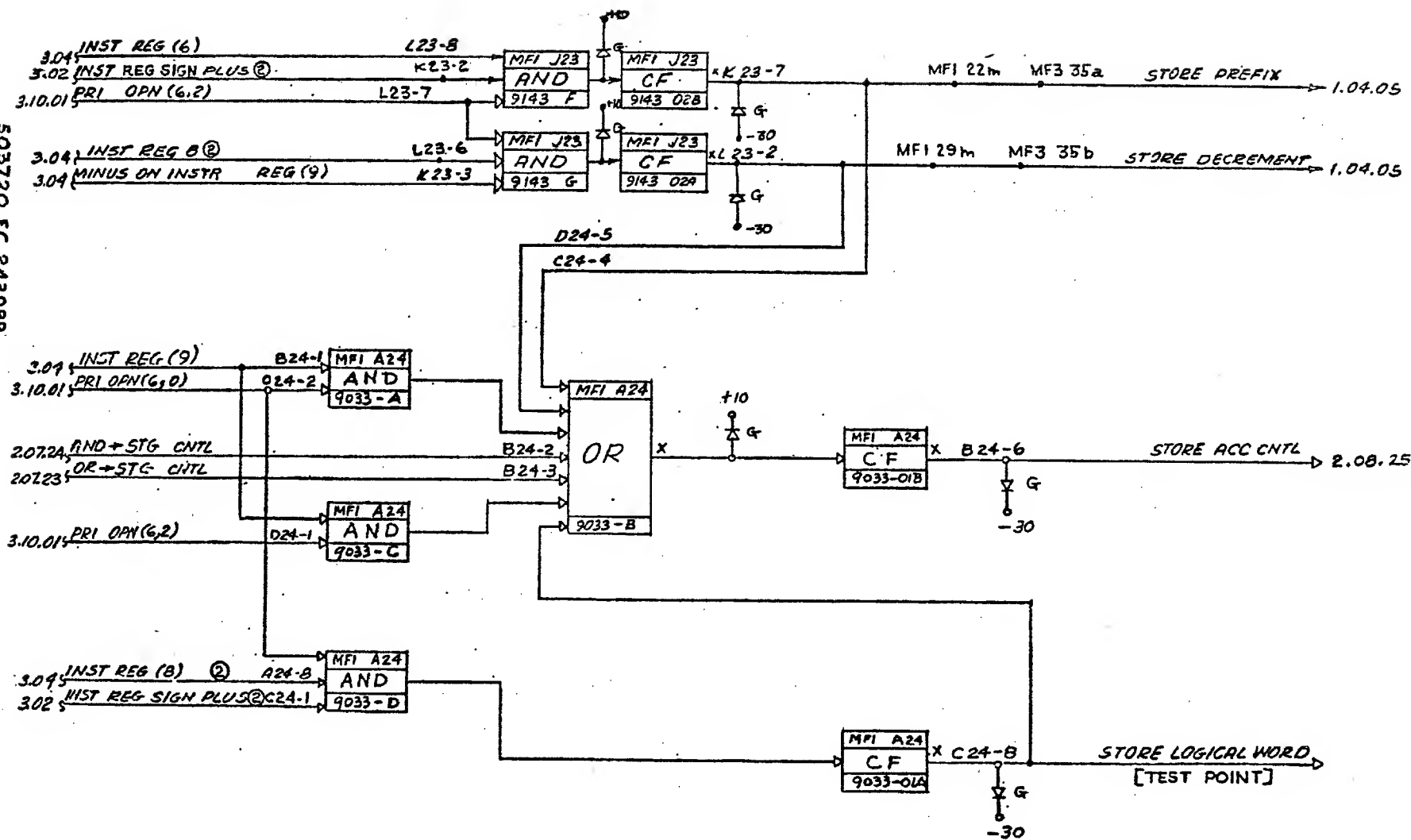
MF1-35g
MF2-Bh



F.P DIV EXEC. CNTL

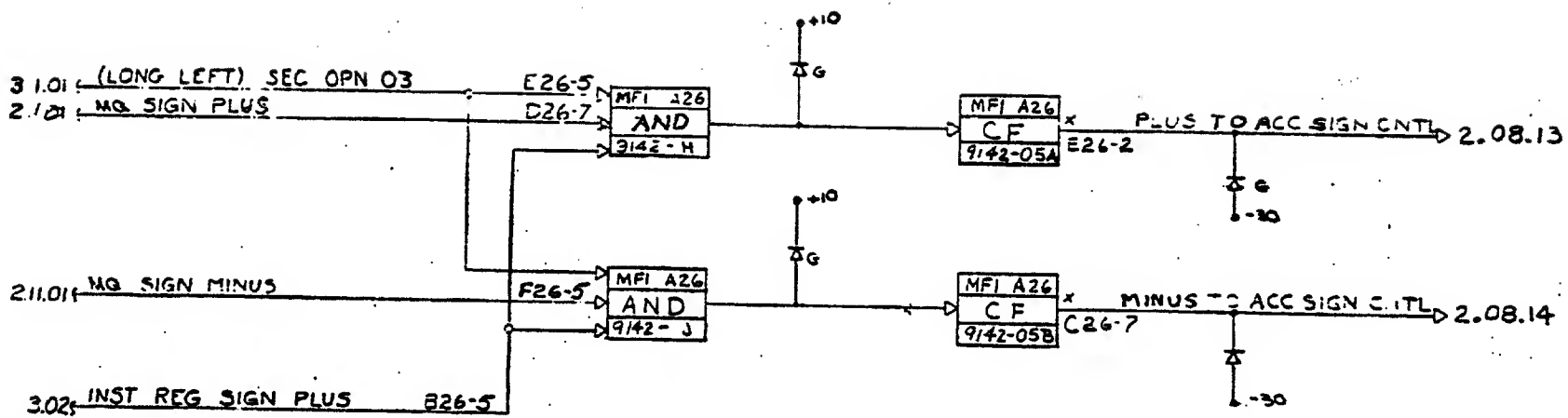
2.07.12
SHEET 2 OF 2

503720 EC 24209B



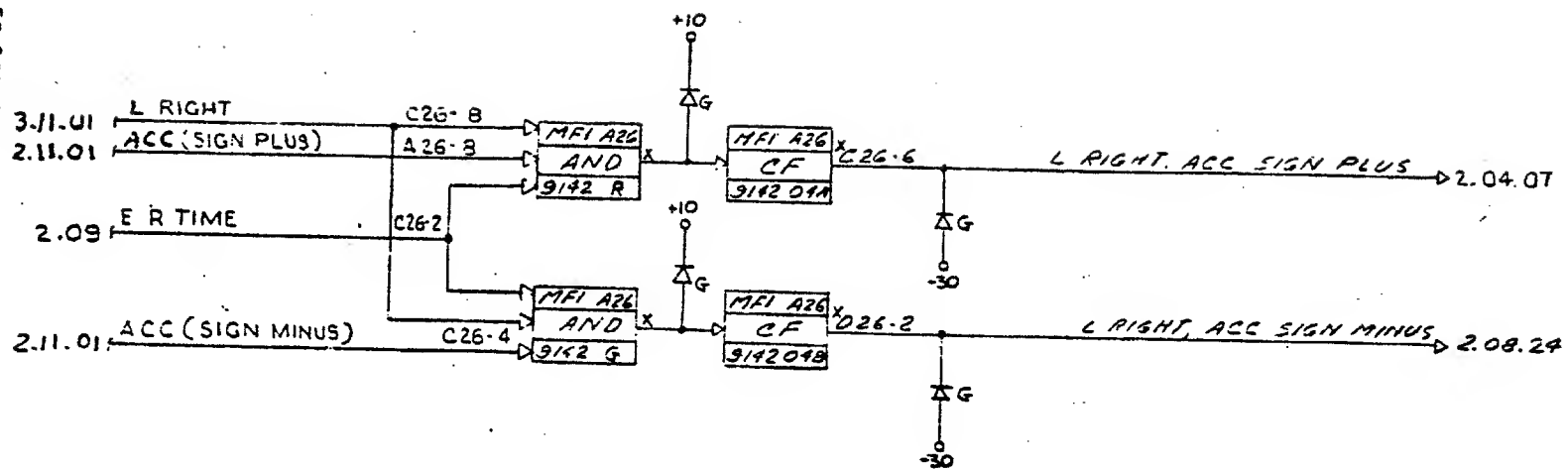
STORE EXECUTION CNTL

2.07.13



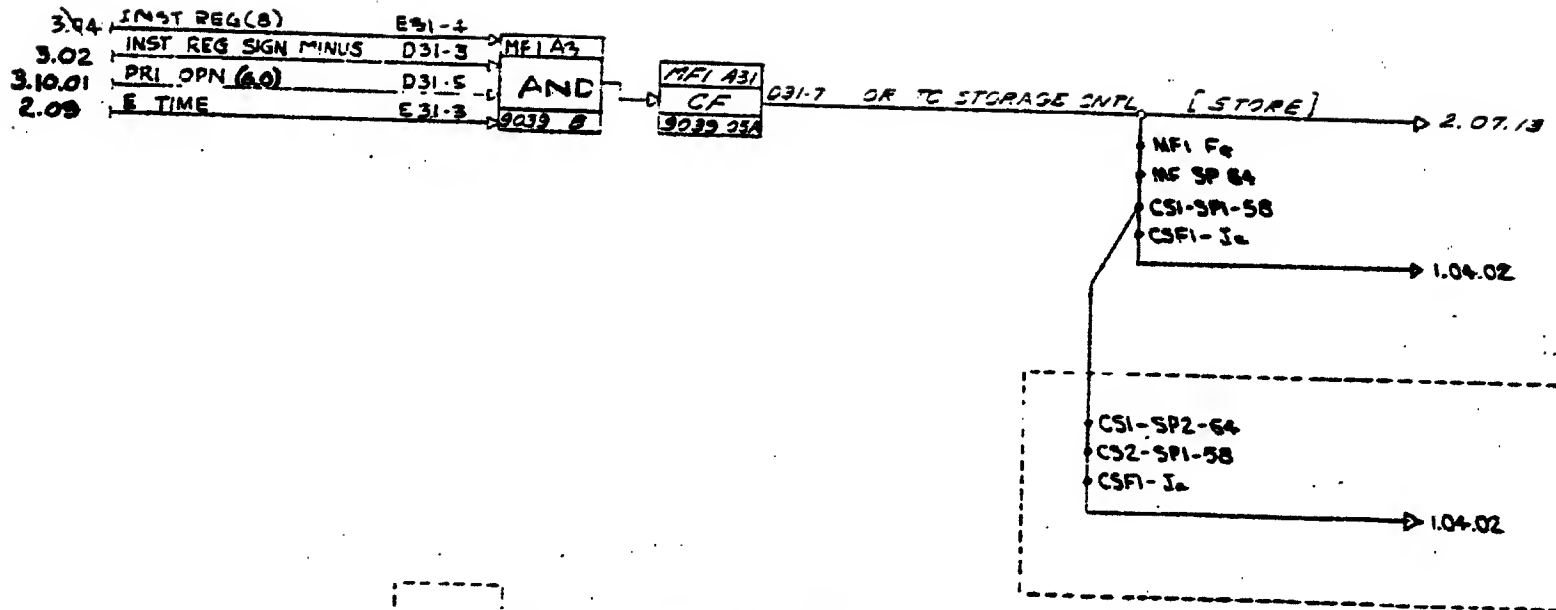
ONG LEFT, LOGICAL LEFT EX CNTL 2.07.17

503732 EC 241259 A



LONG RIGHT EX CNTL

2.07.18

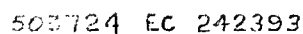


FOR 2 CORE FRAMES ONLY

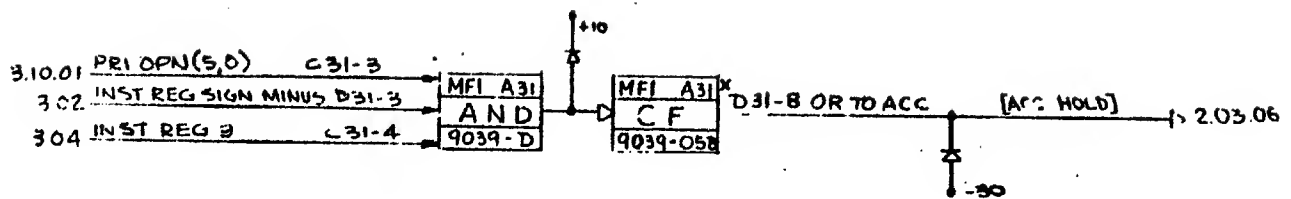
OR TO STORAGE EXEC CNL

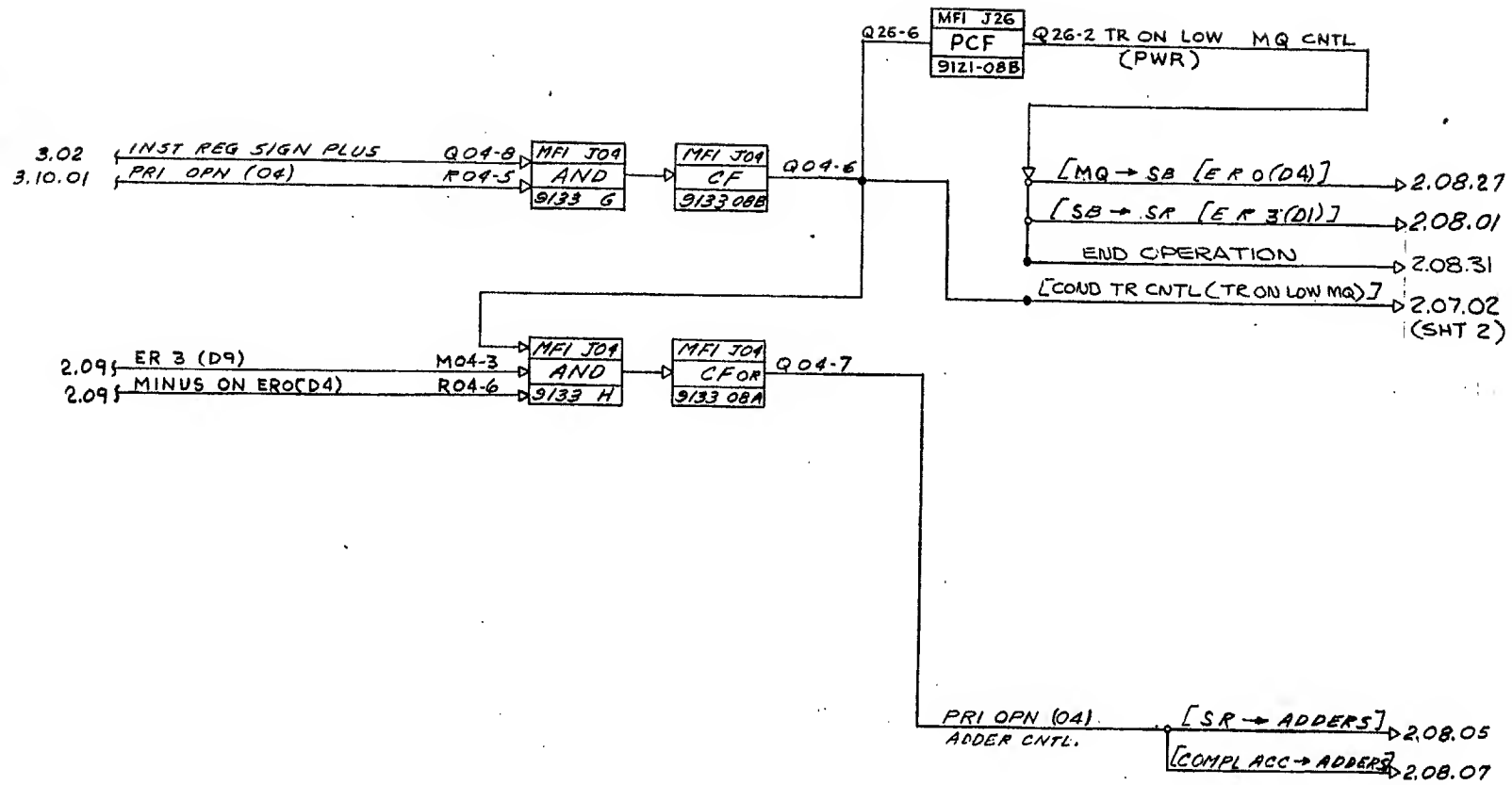
2.07.23

2.07.24



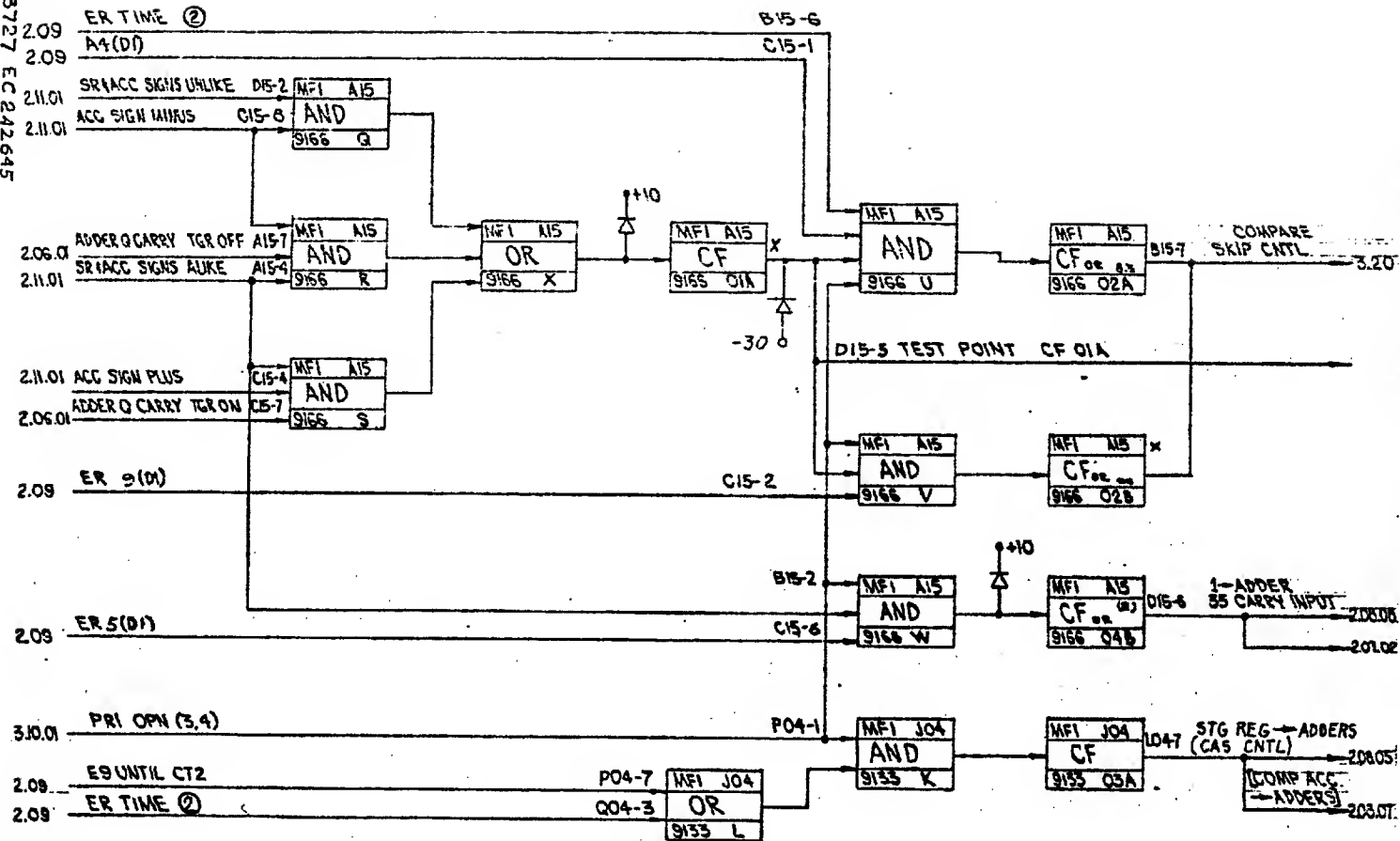
OR TO ACC EXEC CNTL 2.07.25





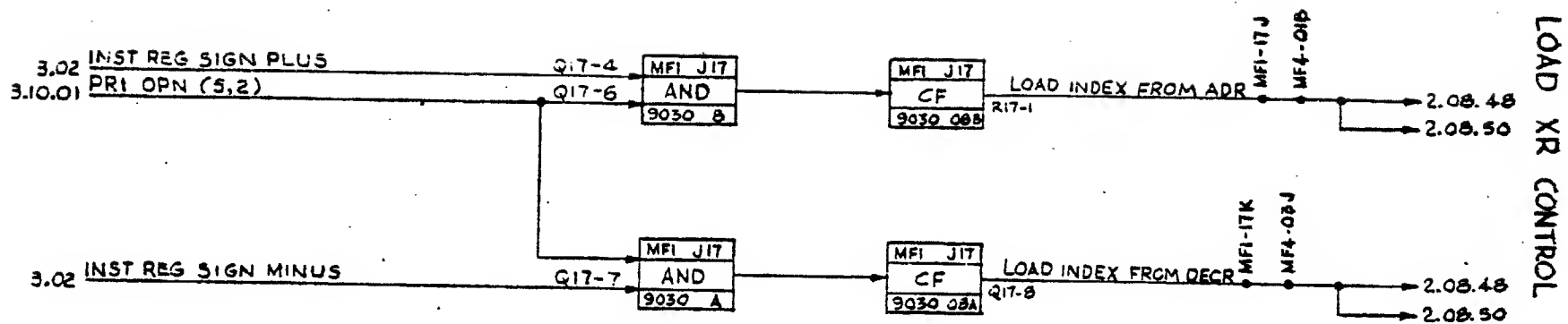
TRANSFER ON LOW QUOTIENT EX CNTL 2.07.26
COMPARE (ACC WITH STORAGE) EX CNTL.

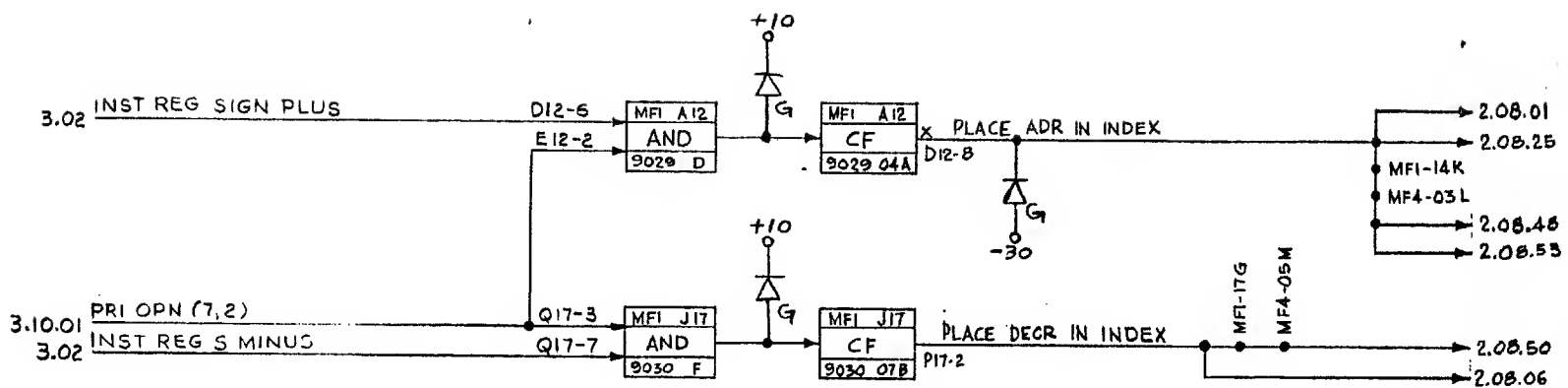
503727 EC 242645



COMPARE ACC WITH STORAGE

2.07.27

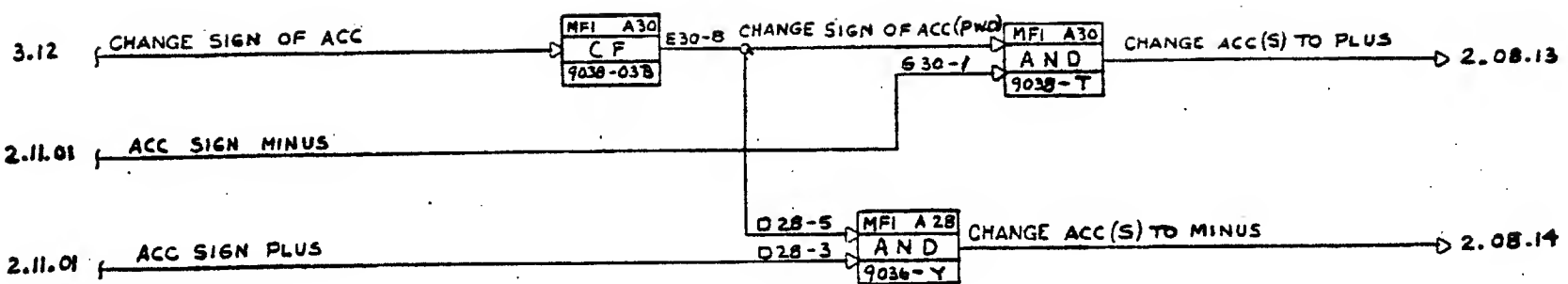




PLACE ADR IN INDEX, PLACE DECR IN INDEX

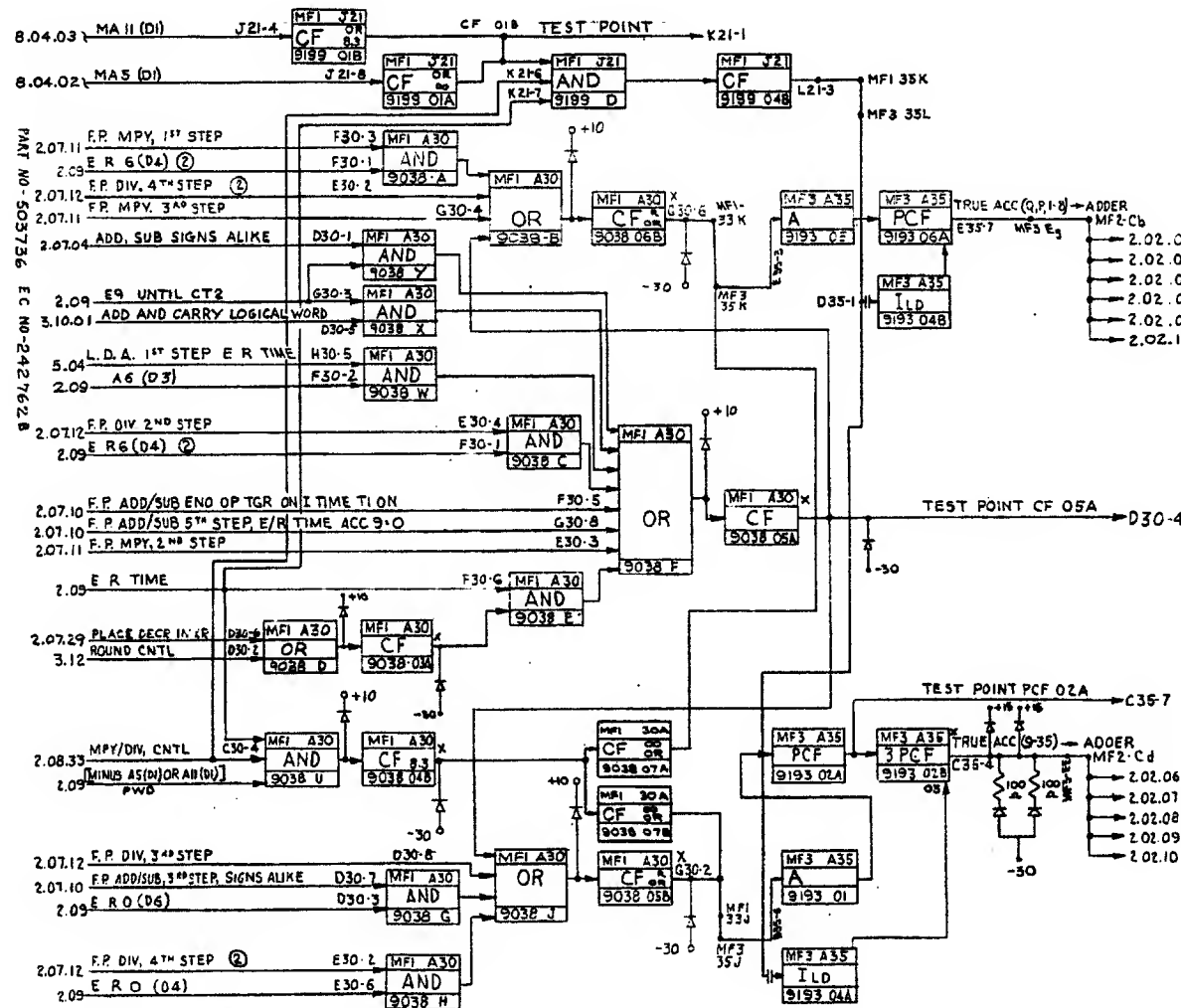
2.07.29

CHANGE ACC SIGN EXEC CNTL 2.07.34



WMS 704-3124

STANDARD CODE	RELEASED FOR ASSEMBLY	REV.	503736
NONE	503626		
DATE	CHANGE NO.		
7-11-55	241355A		
9-15-55	241100		
12-8-55	242138		
12-28-55	242137		
5-8-56	242469B		
9-25-56	242762B		



503736

NOTE:
I PRINT TO ENG SPEC.
805281

TRUE ACC (Q, P, I, S) - ADDERS; TRUE ACC (9-35) - ADDERS
2.08.06

503736

INTERNATIONAL SPECIFICATION NO.	TOLERANCES UNLESS OTHERWISE NOTED	ALIGNMENT WITHIN	NOTE I
	DIMENSIONS ± .005	CIRCULARITY WITHIN	NOTE II
	FRACTIONS ± 1/16	FLAT WITHIN	NOTE III
	ANGLES ± 1°	PARALLEL WITHIN	NOTE IV
	CORNERS ± .010	STRAIGHT WITHIN	NOTE V
	WAYS ± .010	SQUARE WITHIN	NOTE VI

NOTE I
NOTE II
NOTE III
NOTE IV
NOTE V
NOTE VI

INTERNATIONAL BUSINESS MACHINES CORP.
ELECTRONIC ANALYTICAL
CONTROL UNIT MODEL 704
SYSTEM DIAGRAM
2.08.06
DRAWN: CLC 5-7-54 SCALE: NONE
CHECK: JMT 6-21-55 TRAC: G.P. 3-15-55
APPRO: JAC 6-21-55 CHECK: WAI 3-15-55

STANDARDS CODE	RELEASED FOR ASSY	QTY	503737
NONE	503626		

2.08.07



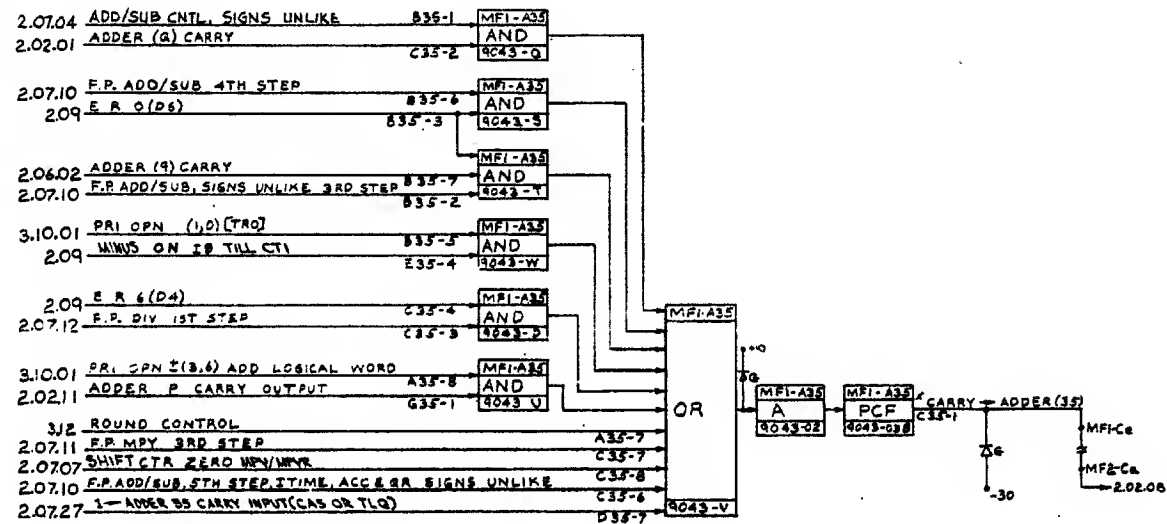
						INTERNATIONAL BUSINESS MACHINES CORP.	
SYM	DATE	CHANGE N°				NAME	SYSTEM DIAGRAM
						2.08.07	
						DESIGN	MODEL 704
						DETAIL	SCALE NONE
						CHECK	DRAWN CJC/EIO/SB
						APPROV	CHECK JMT/GJS/SA

WAS 704-3126

STANDARD CODE	RELEASED FOR ALTERN	DATE	CHANGE NO.
NOUE	503626	7-11-55	241385
		10-11-55	241701
		9-15-56	242762

503738

503738 EC 242762 B

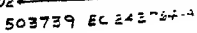


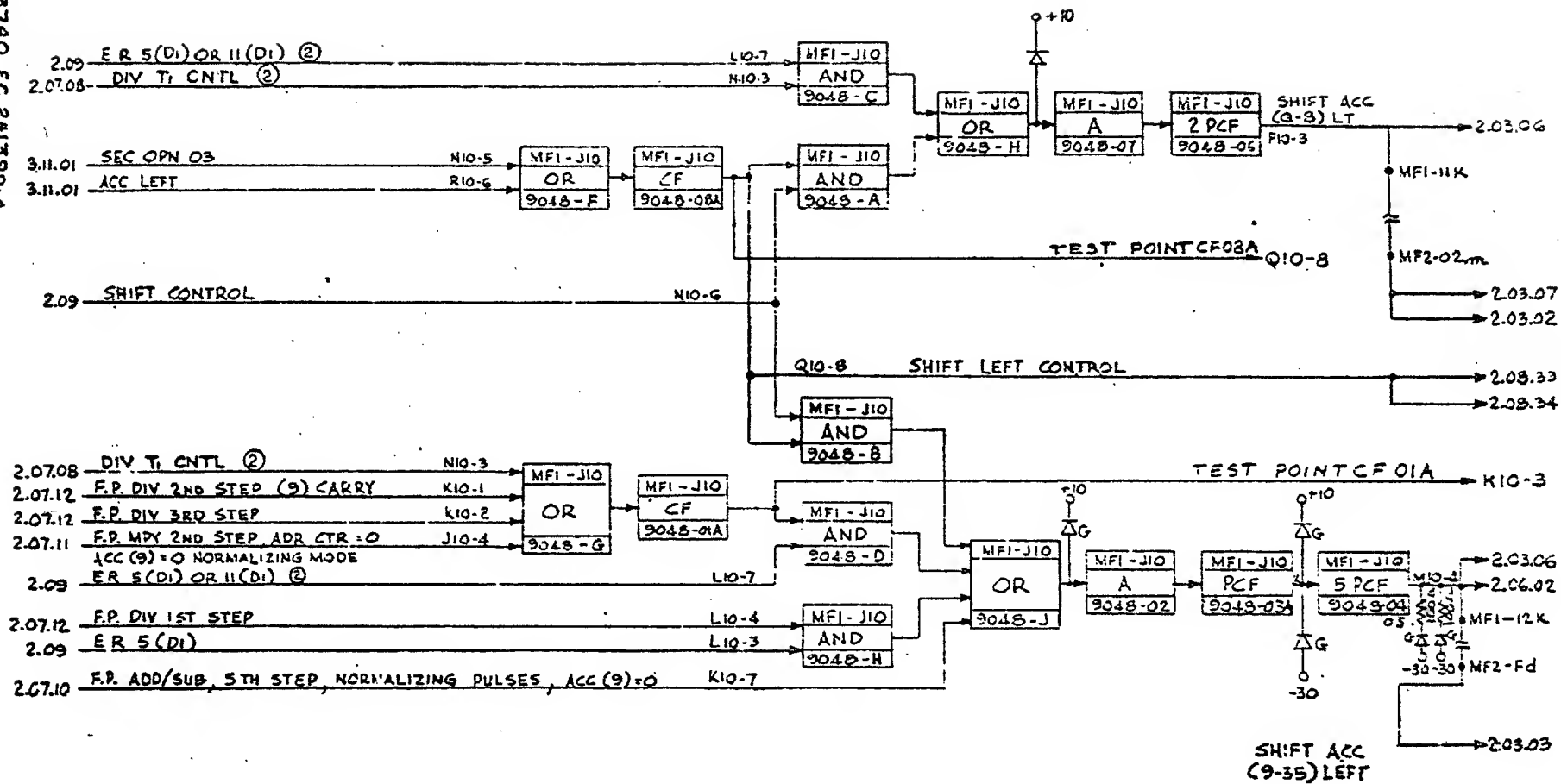
503738

MATERIAL SPECIFICATIONS	NO.	TOLERANCES UNLESS OTHERWISE NOTED	ALIGNMENT WITHIN	NOTE 1	INTERNATIONAL BUSINESS MACHINES CORP.
		DIMENSIONS ± .005	CONCENTRIC WITHIN	NOTE 2	MACRO ELECTRONIC ANALYTICAL
		FRACTIONS ± 1/16	FLAT WITHIN	NOTE 3	CONTROL UNIT MODEL 704
		ANGLES ± 1°	PARALLEL WITHIN	NOTE 4	NAME SYSTEM DIAGRAM
		CONTOURS MAY BE BROKEN	STRAIGHT WITHIN	NOTE 5	DATE 2.08.08
			SQUARE WITHIN	NOTE 6	SCALE: 1/4" = 1" (1:4)
				NOTE 7	CHECK: JMT 6-9-55 TRAC: DKM 11-6-55
				NOTE 8	APPRO: K 12-9-55 CHECK: SHS 1-7-55

503738

2.08.09

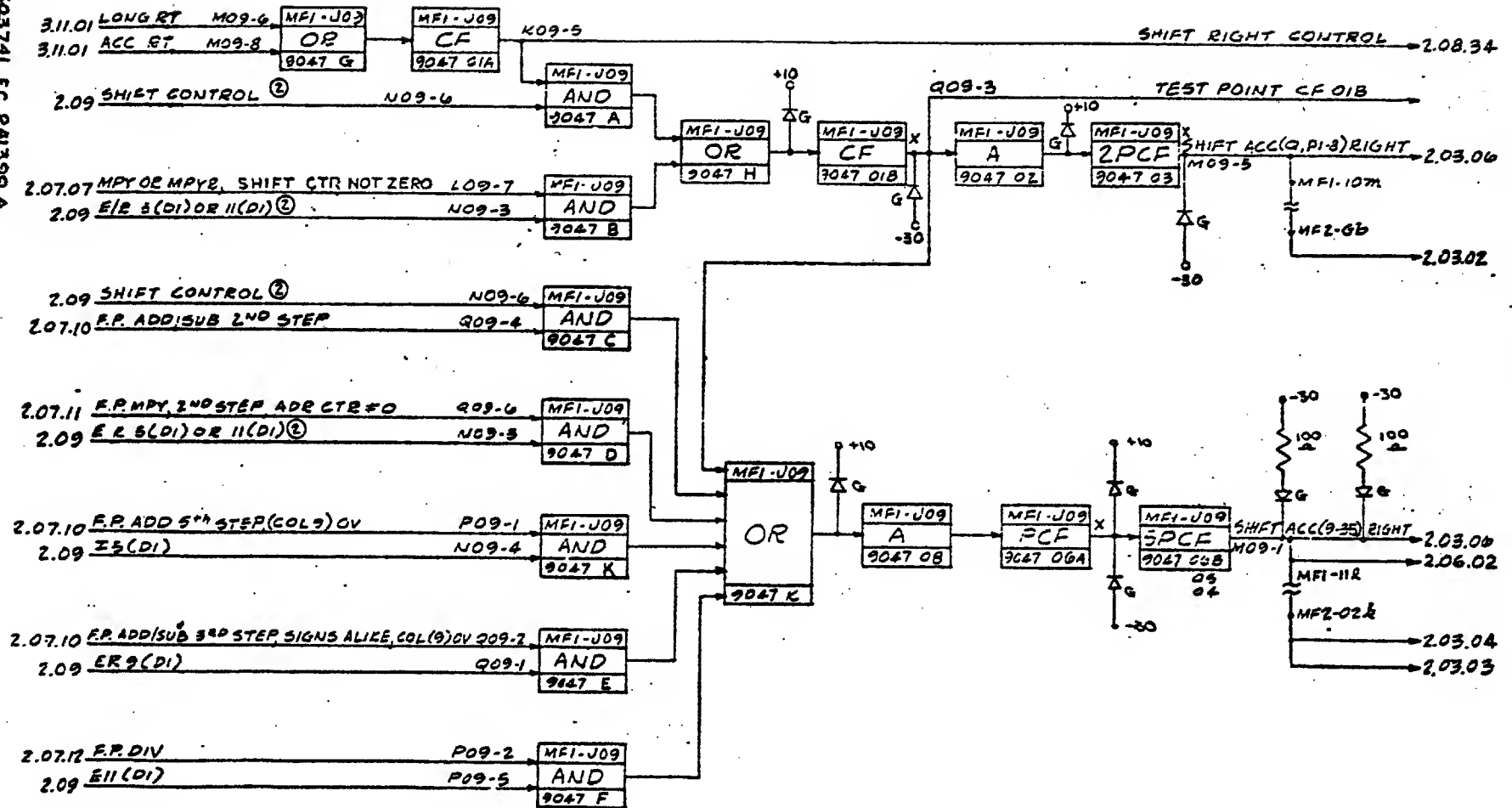




SHIFT ACC LEFT

2.0810

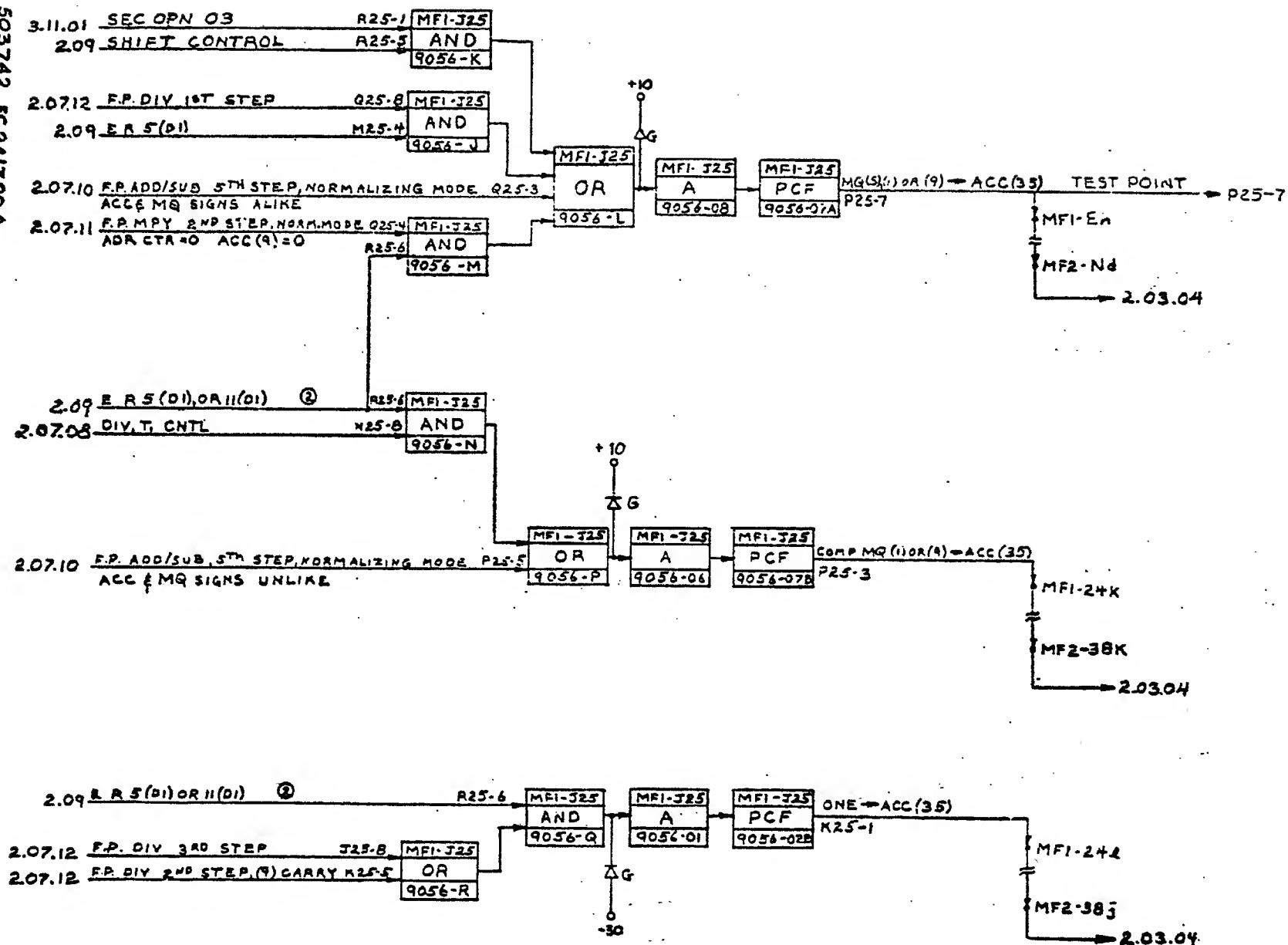
503741 EC 24399 A



SHIFT ACC REG RIGHT

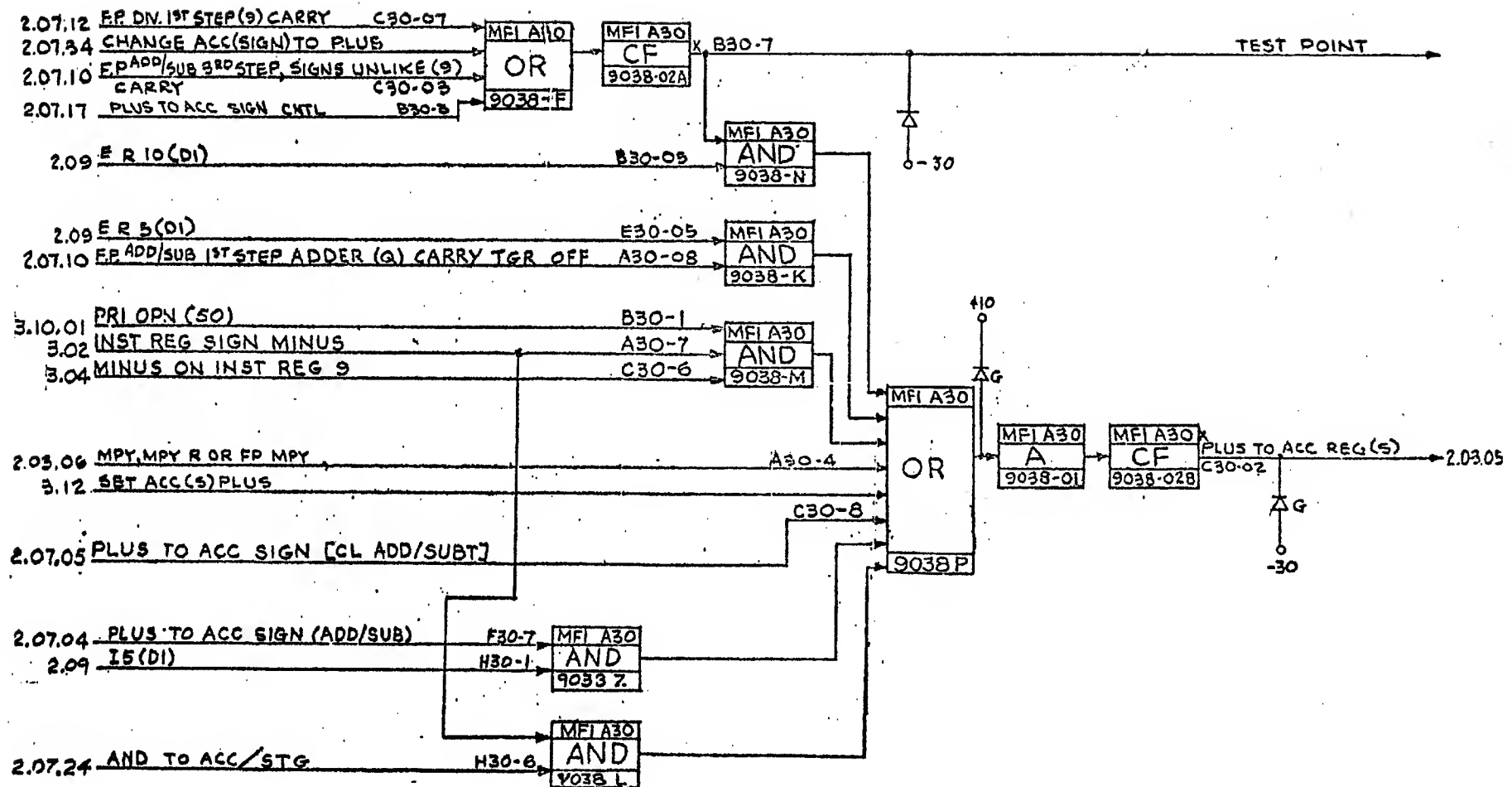
2.08.11

503742 EC24/399A



MQ (5), (1) OR (4) TO ACC (35), 1 TO ACC (35)

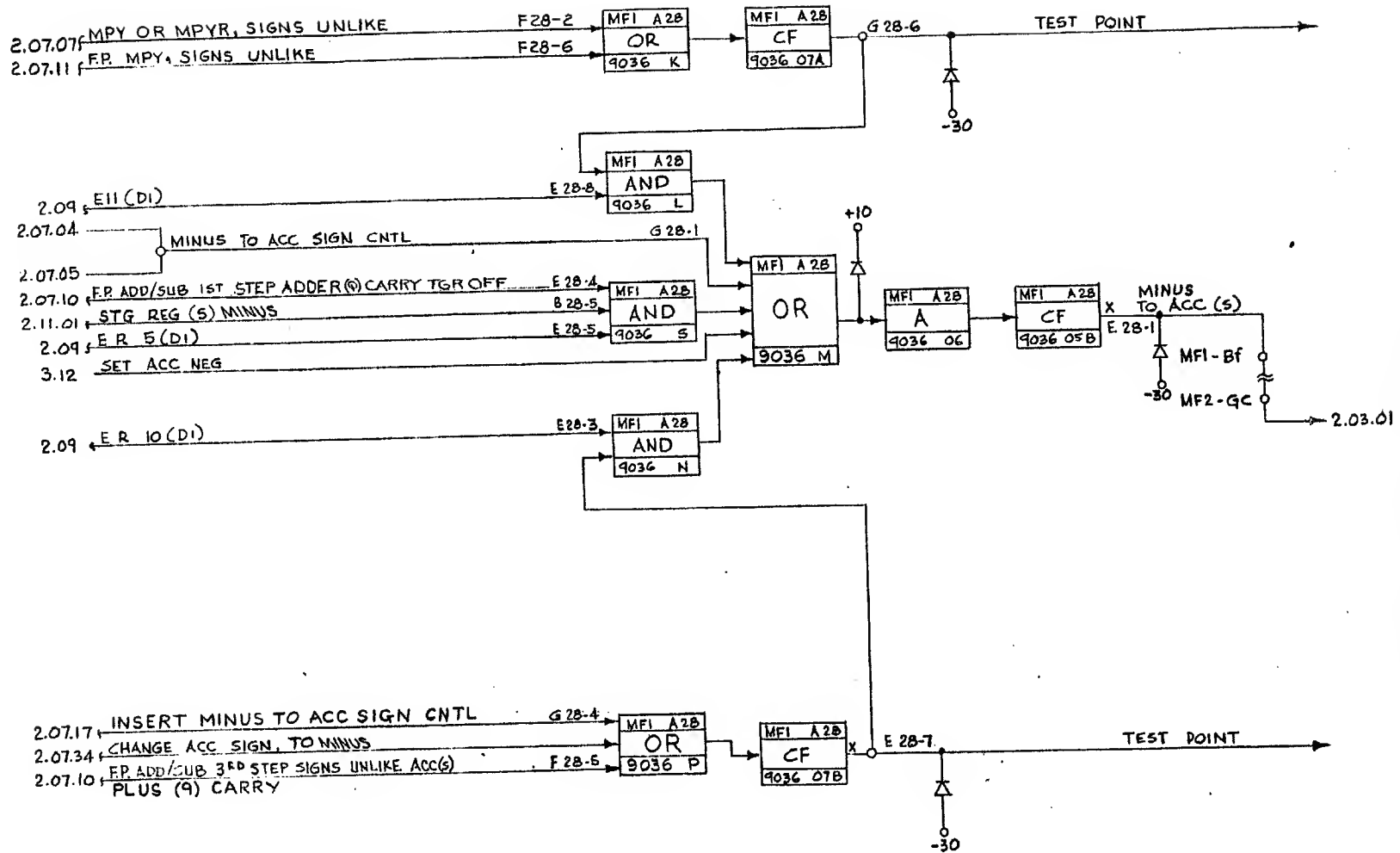
2.08.12



PLUS TO ACC REG (S)

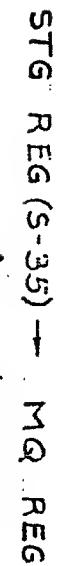
2.08.13

503744 EC 241816



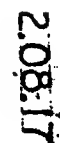
MINUS TO ACC REG (S)

2.08.14

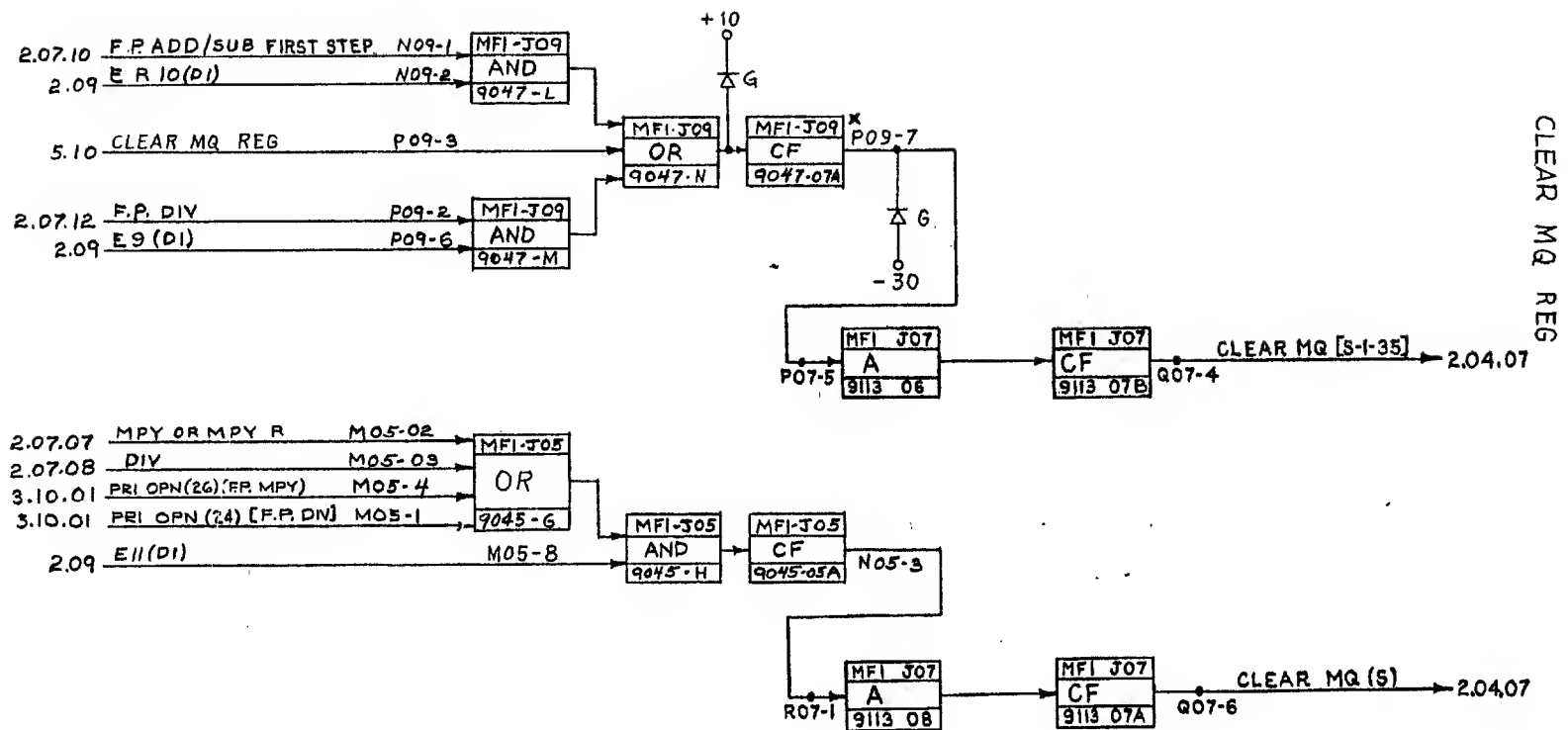


2.08.15

SHIFT MQ LEFT

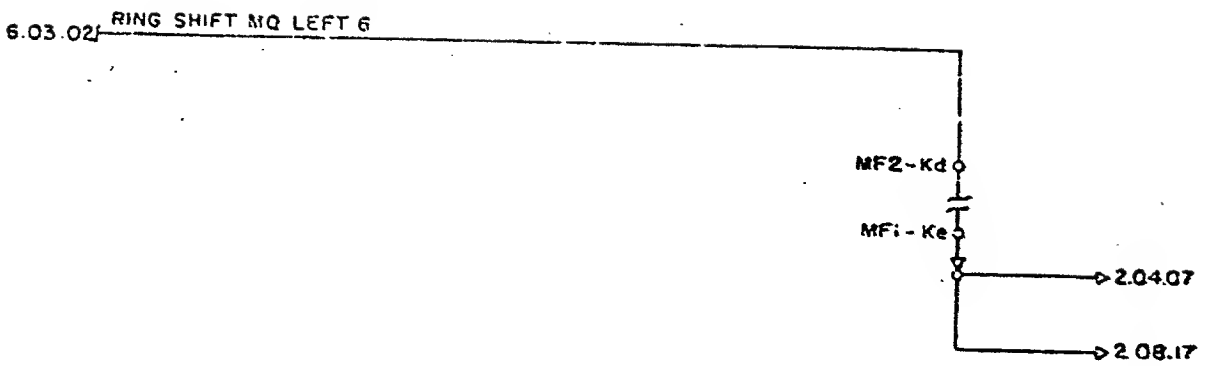


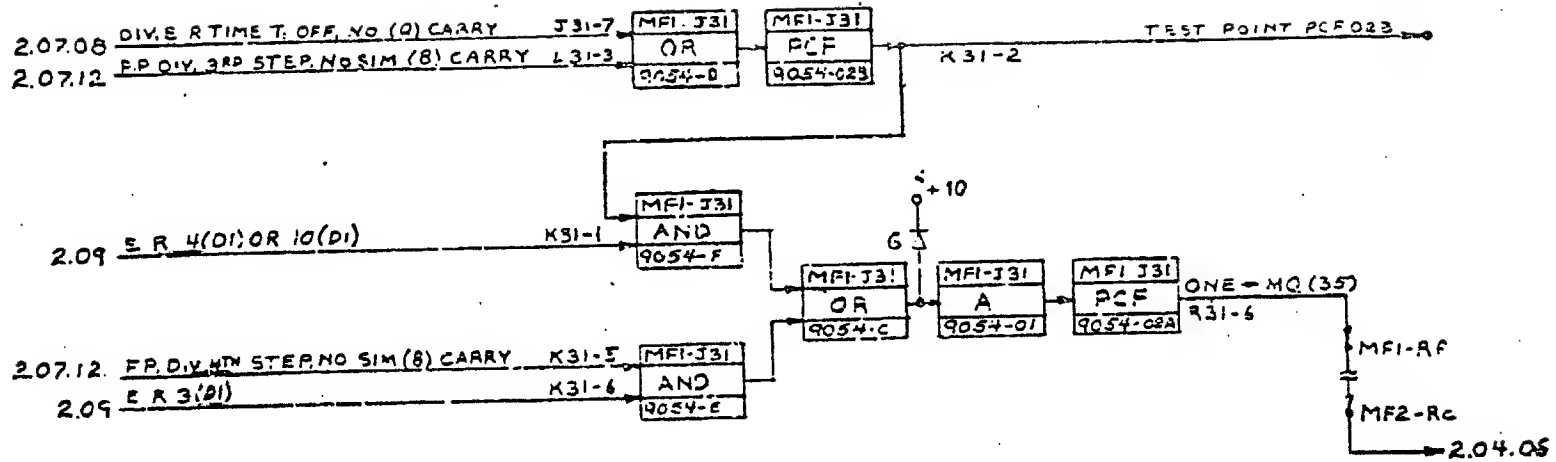
503748 EC_242940



CLEAR MQ REG

2.08.18

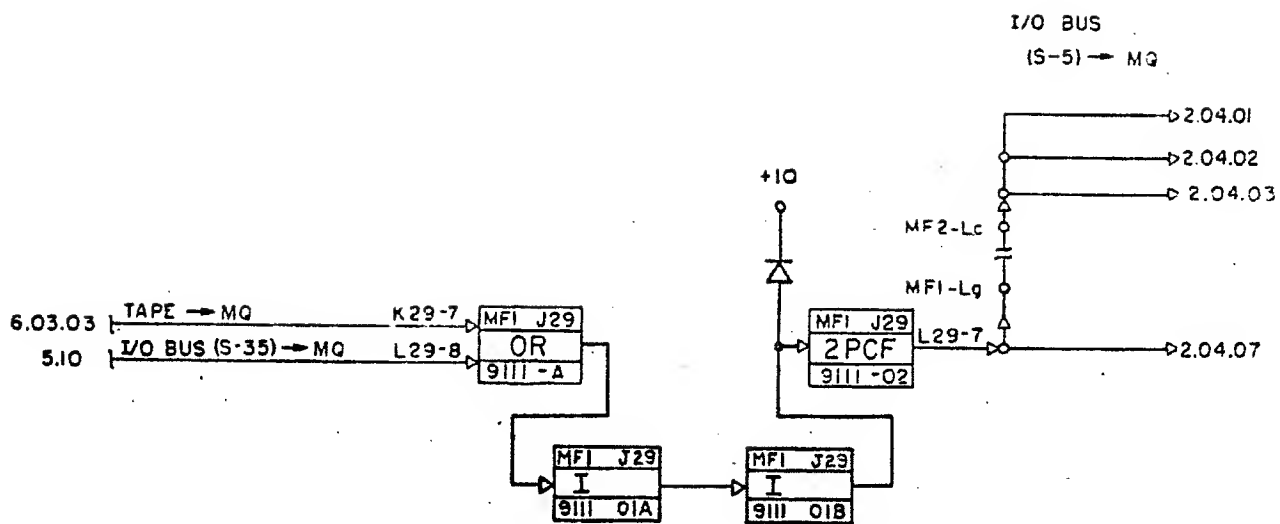




ONE → MQ (35)

2.08.20

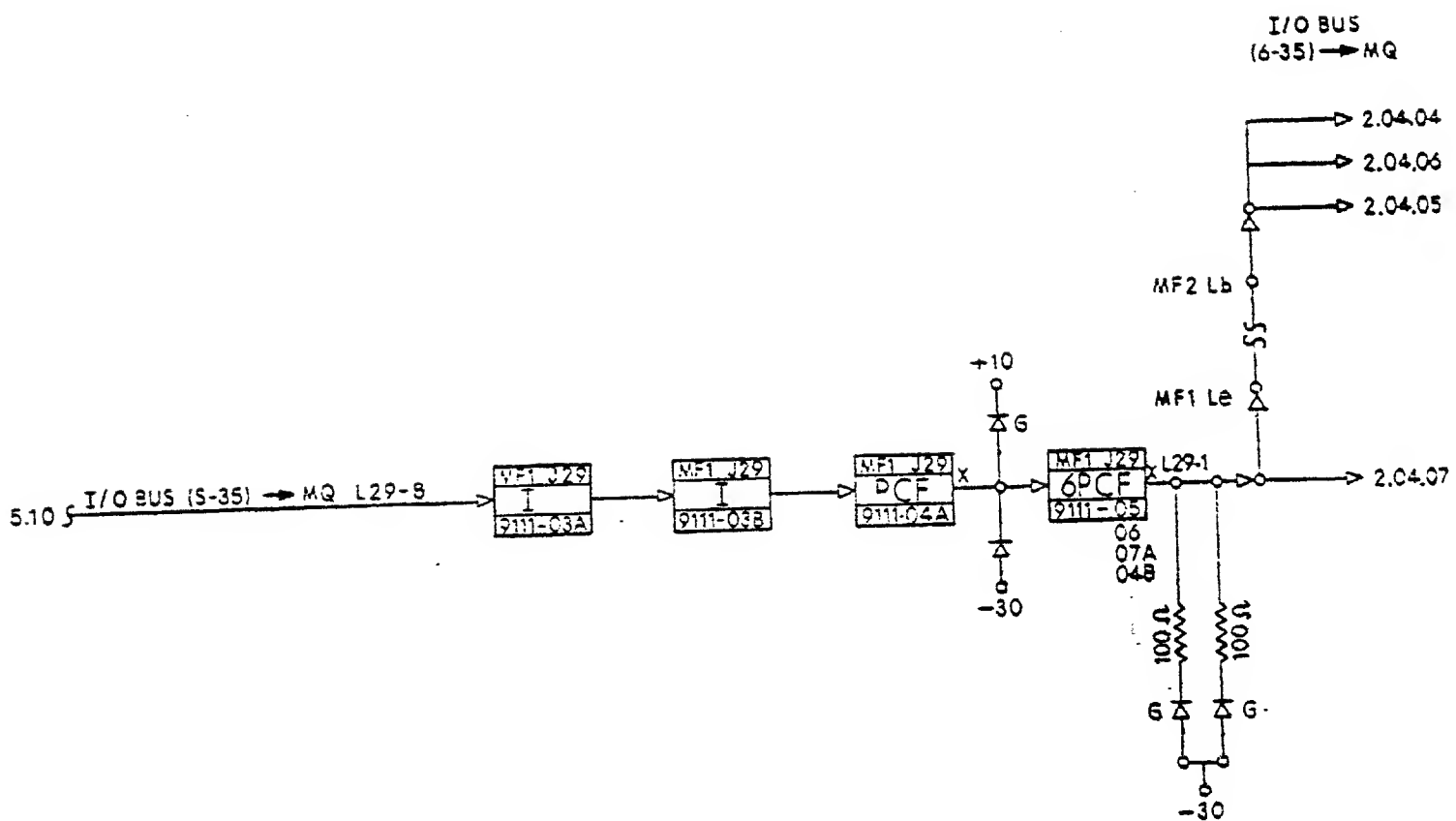
PART NO 503751
E C NO 241949



I/O BUS (S-5) → MQ REG

2.06.21

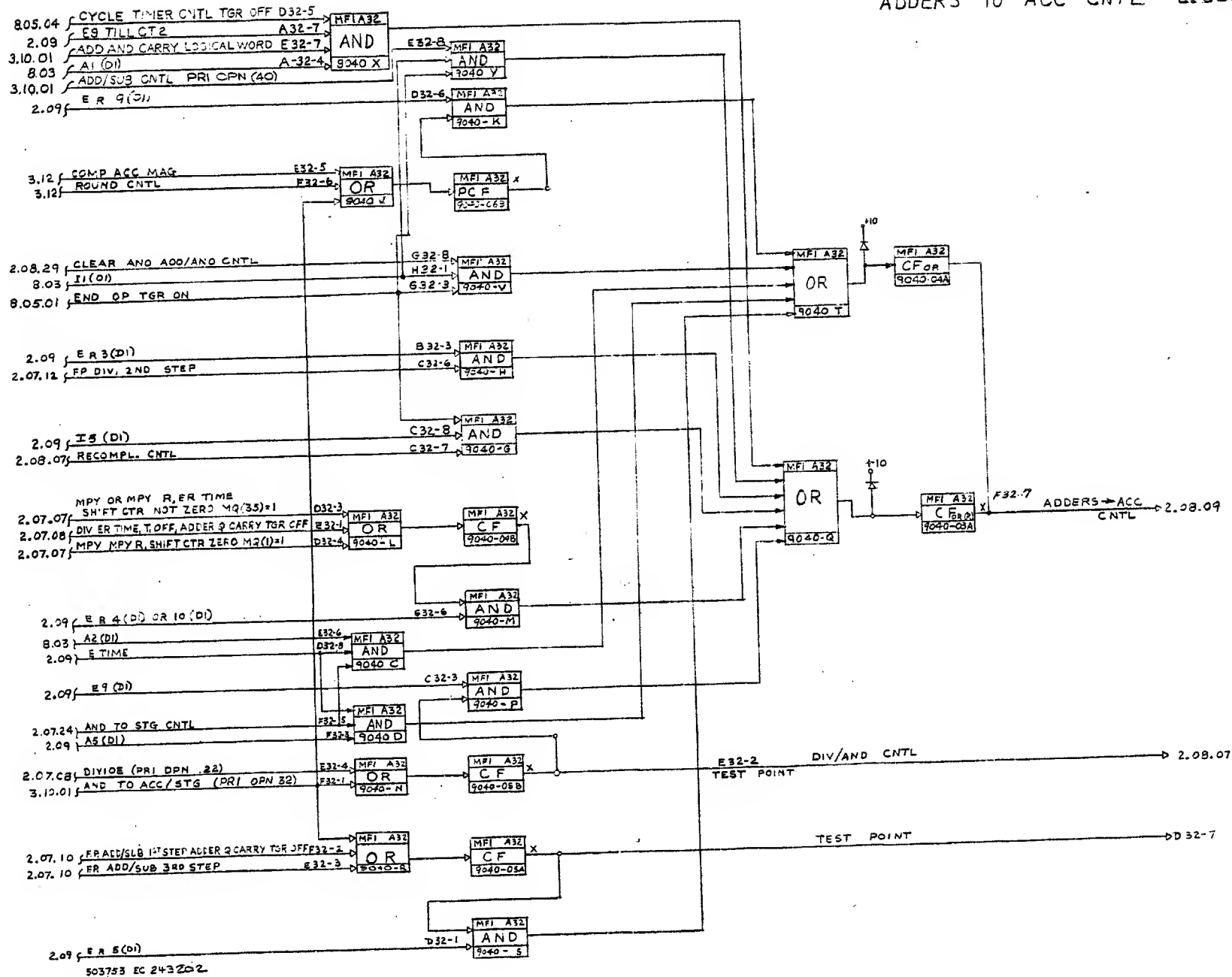
603762 EC 24M11

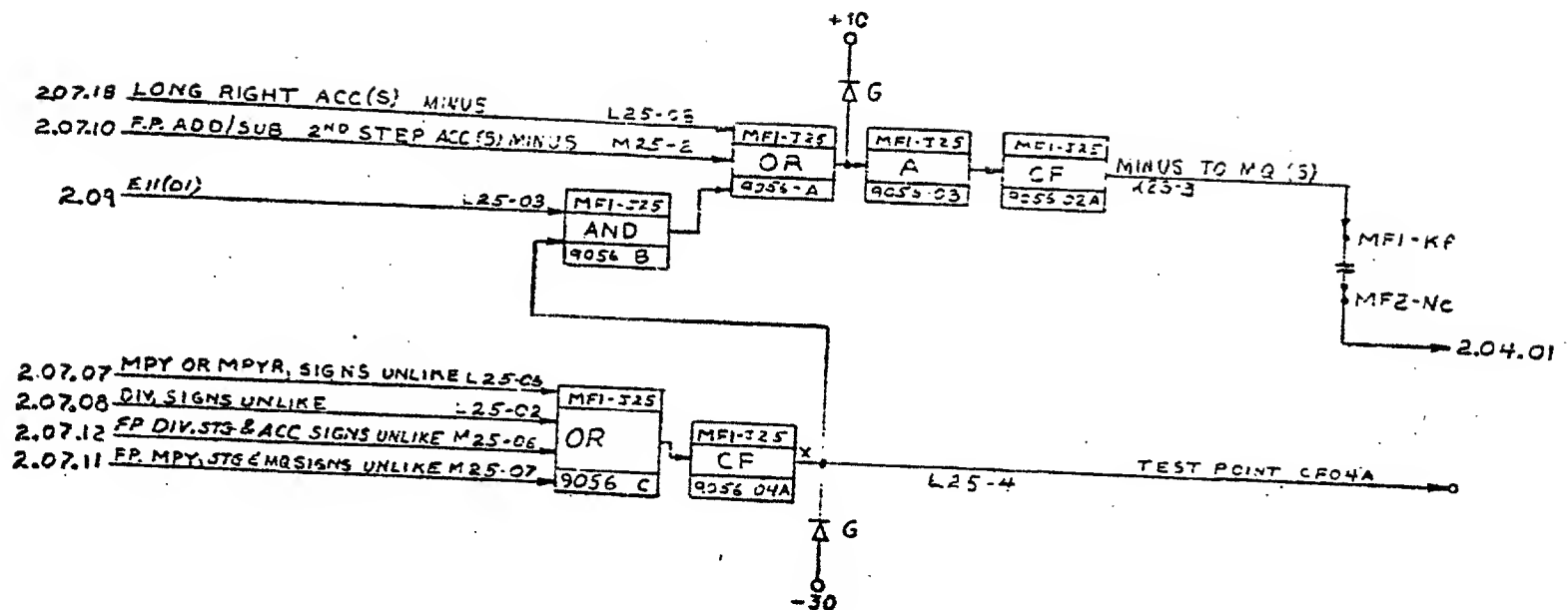


I/O BUS (6-35) → MQ REG

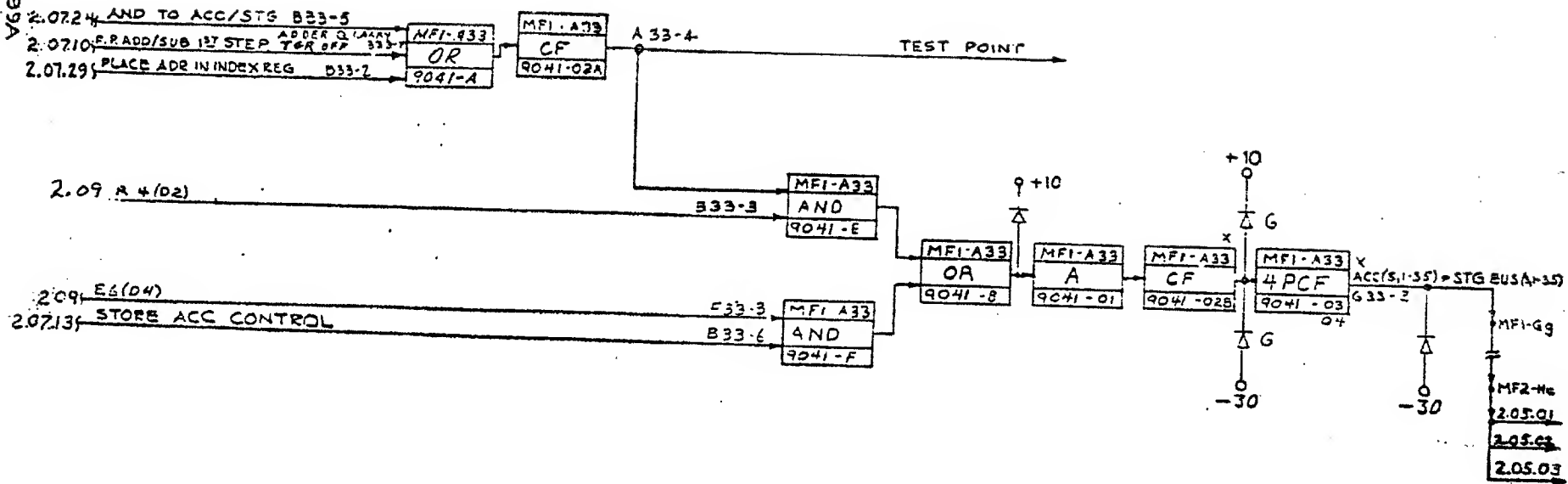
2.08.22

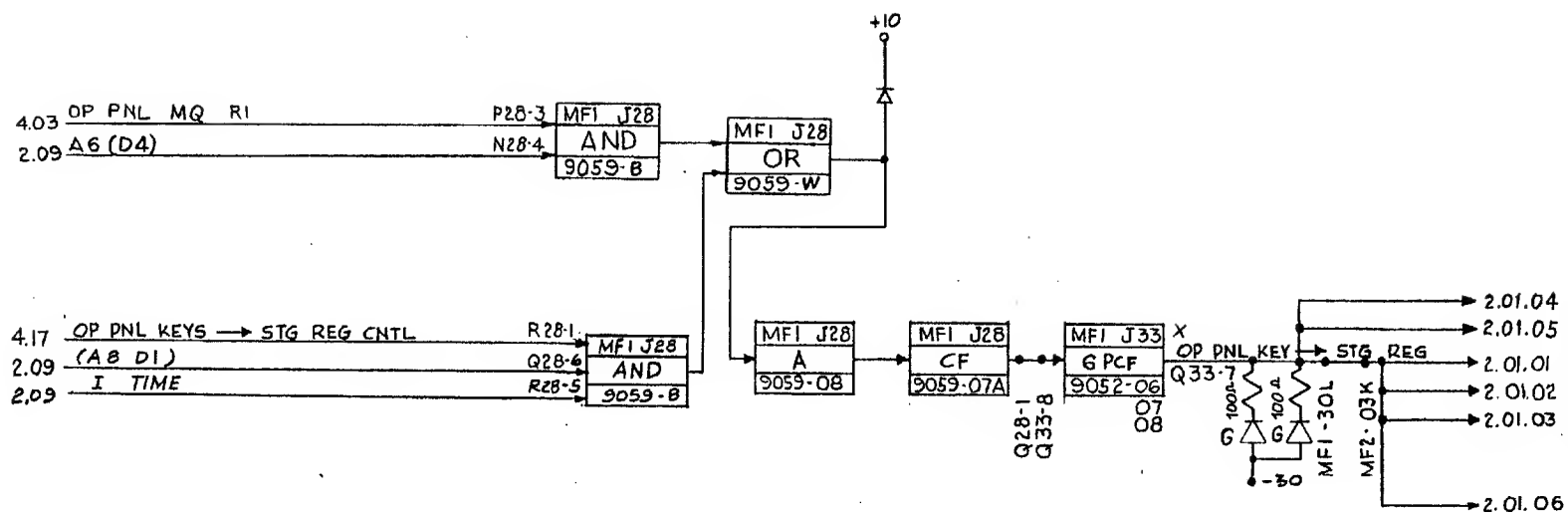
ADDERS TO ACC CNTL 2.08.23





503755 EC 241399A

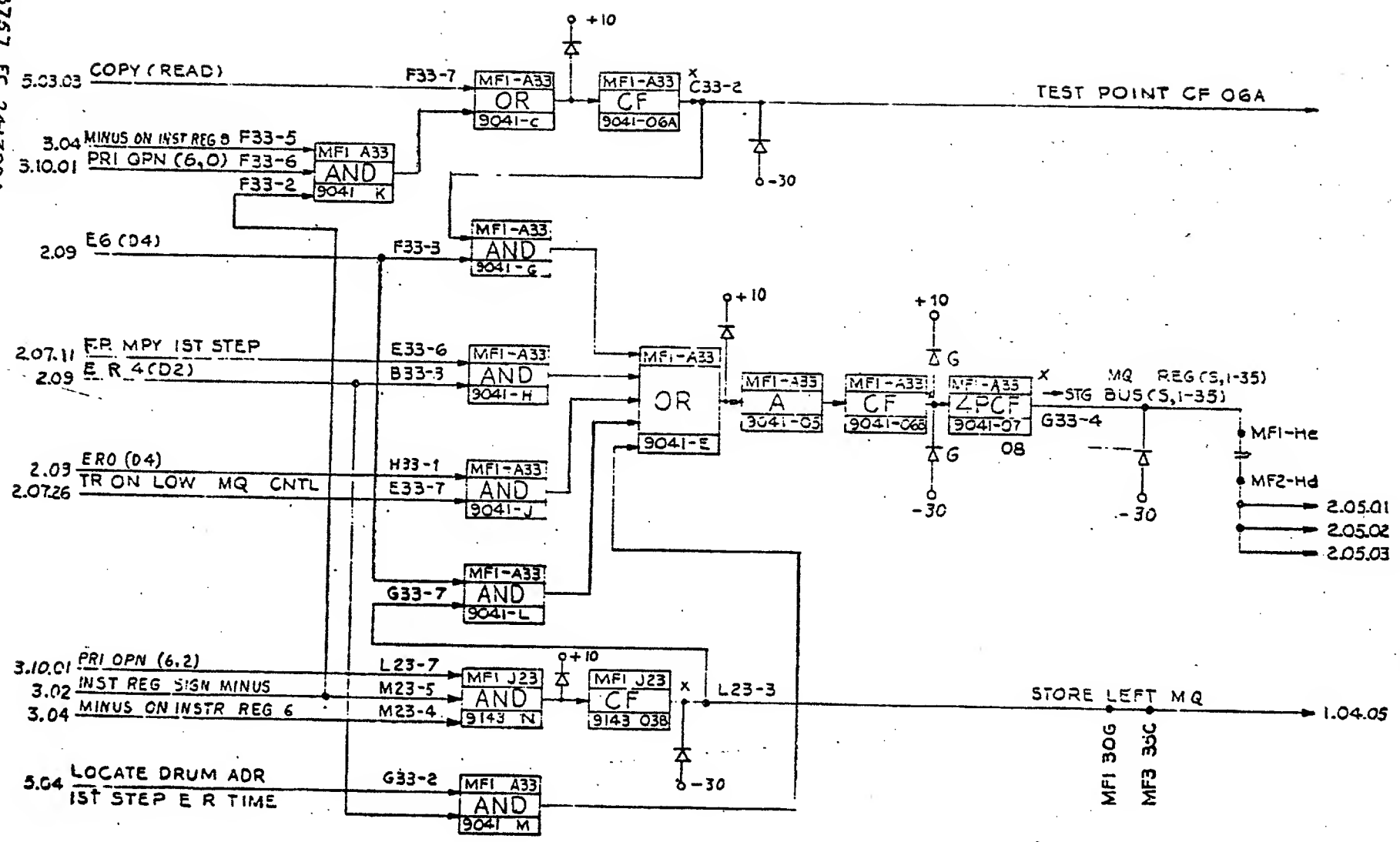




OPN PNL KEYS → STG. REG

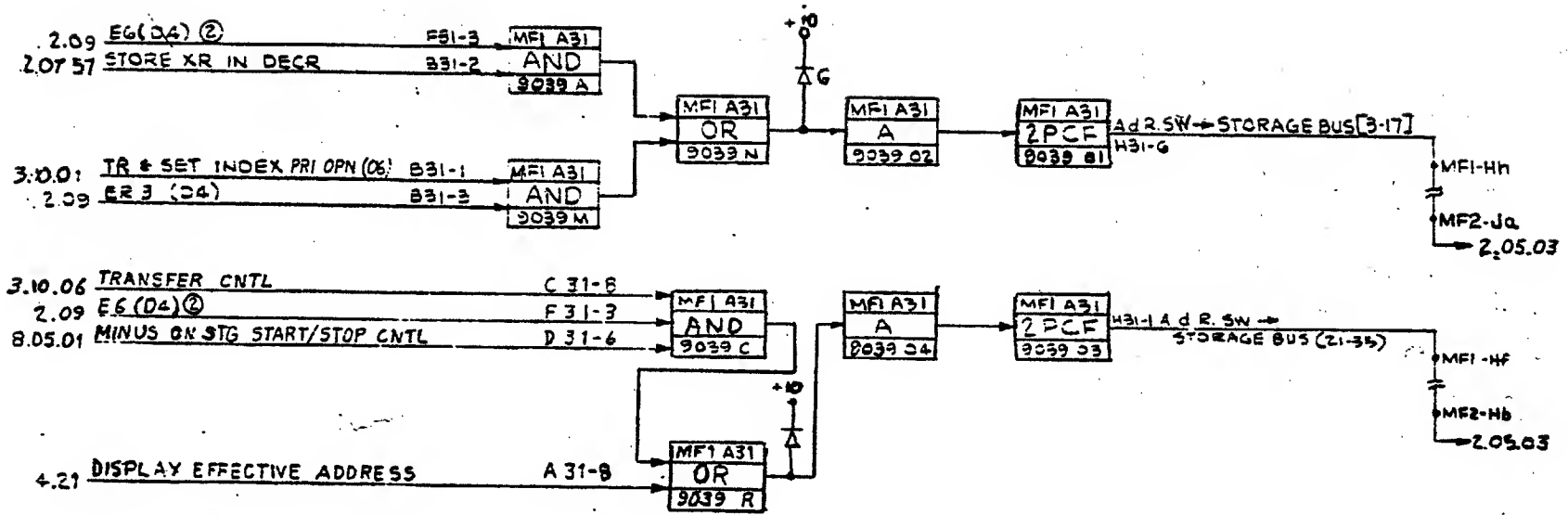
2.08.26

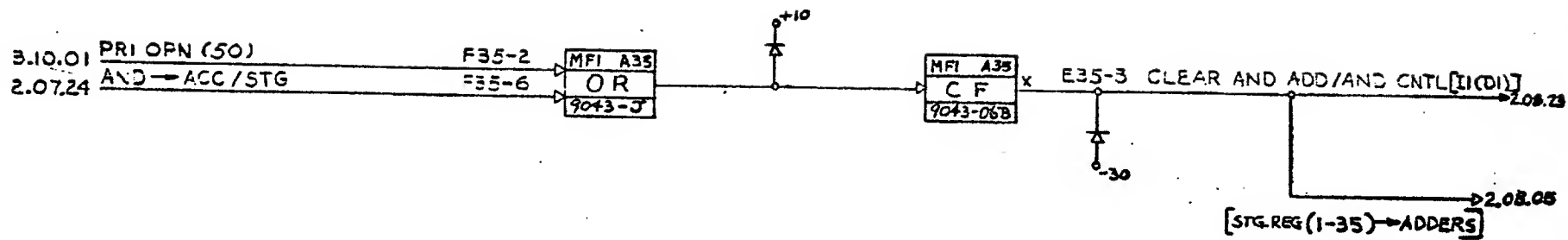
503767 EC 241399A

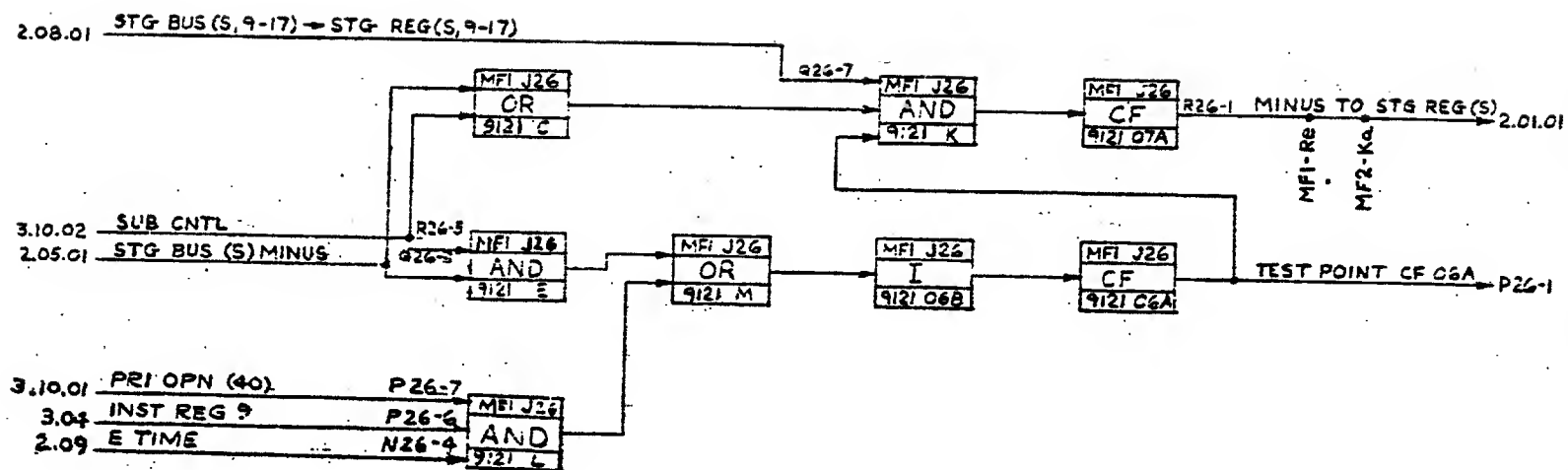


803758 EC 241199A

A (R) SWITCHES TO STORAGE BUS (3-17) (21-35) 2.08.28





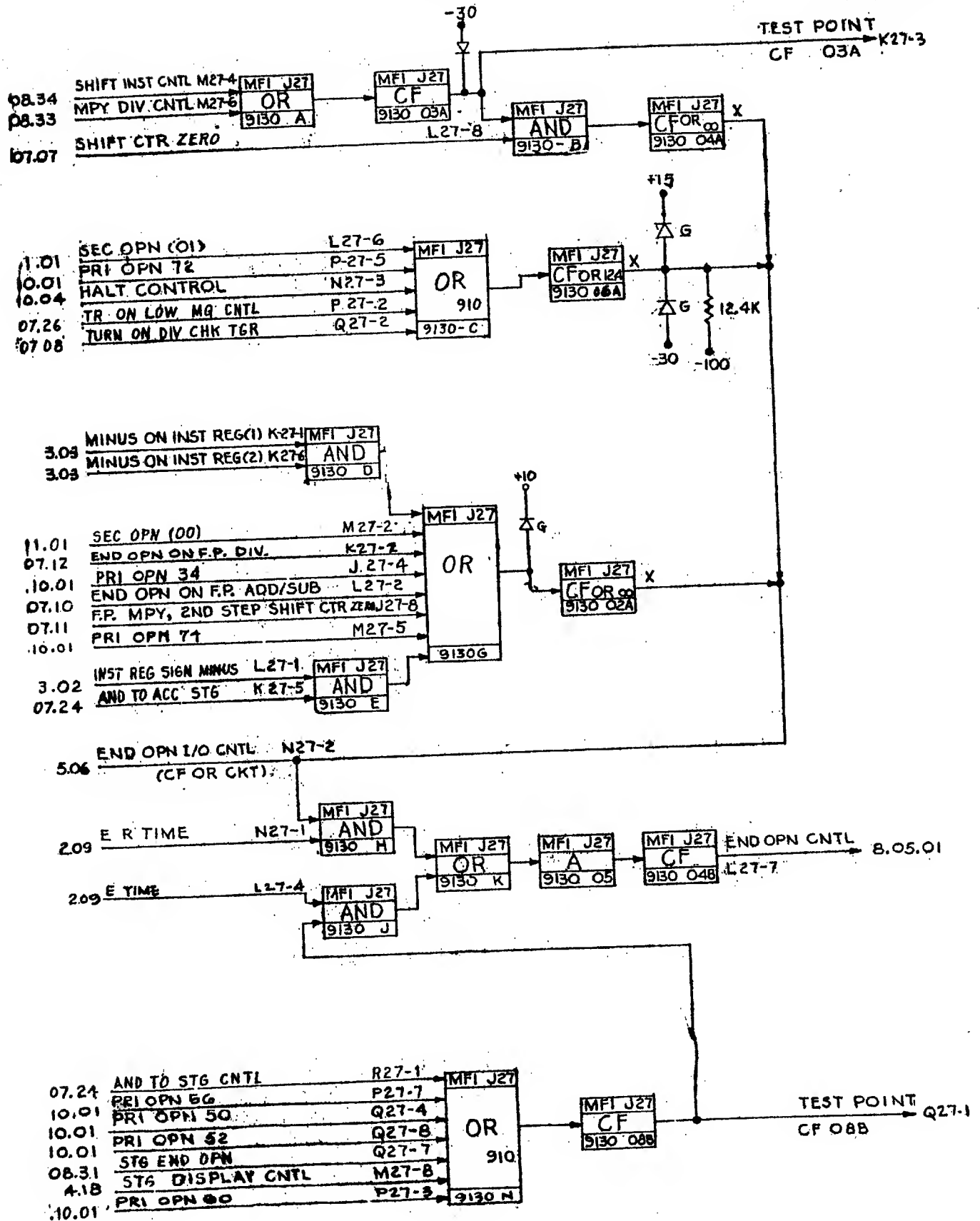


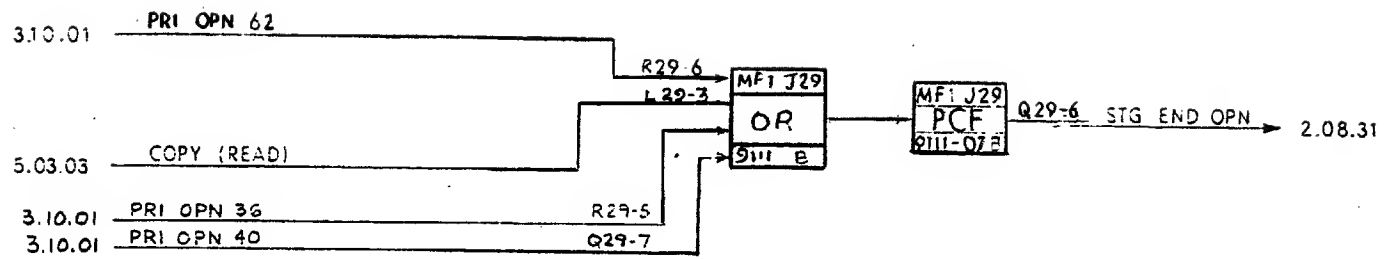
MINUS TO STG REG S.

2.08.3C

END OPERATION

2.08.57
SHEET 1 OF 1

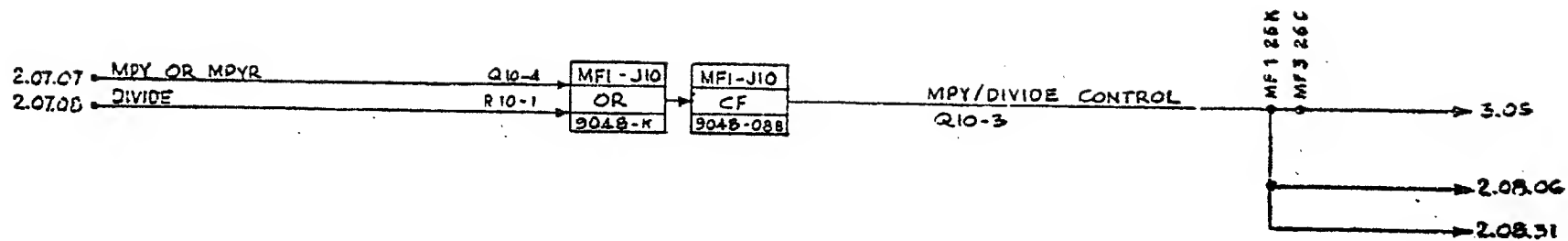




END OPERATION

35 - SHIFT CTR

2.08.33



503763 EC 241399A

WAS 704-3422

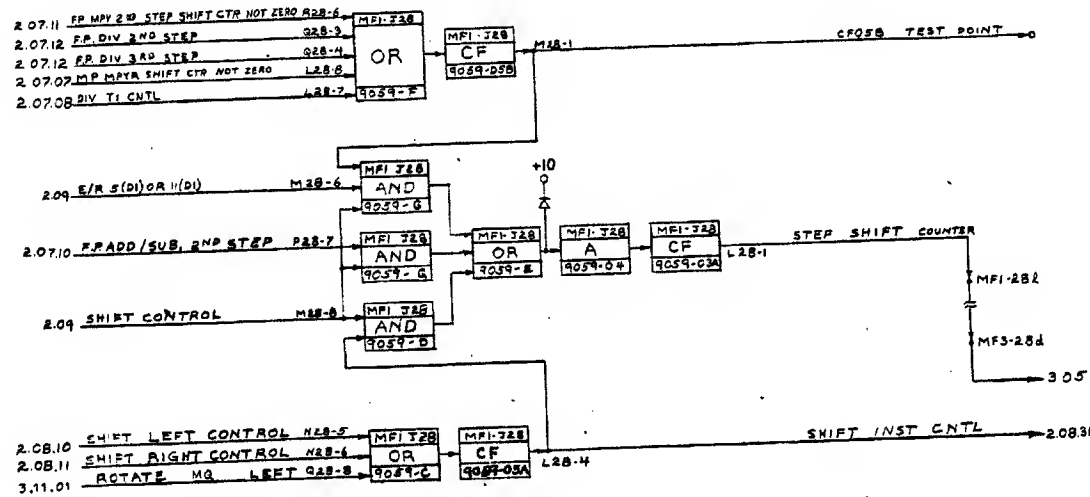
STANDARD CODE	RELEASED FOR ASSES	QTY
NONE	503626	

503764

DATE 7-11-55

CHANGE NO. 24-5002

503764 EC 2A1399A



STEP SHIFT COUNTER

2.08.34

NOTE
 I PRINT TO ENG.
 SPEC. 895291

503764

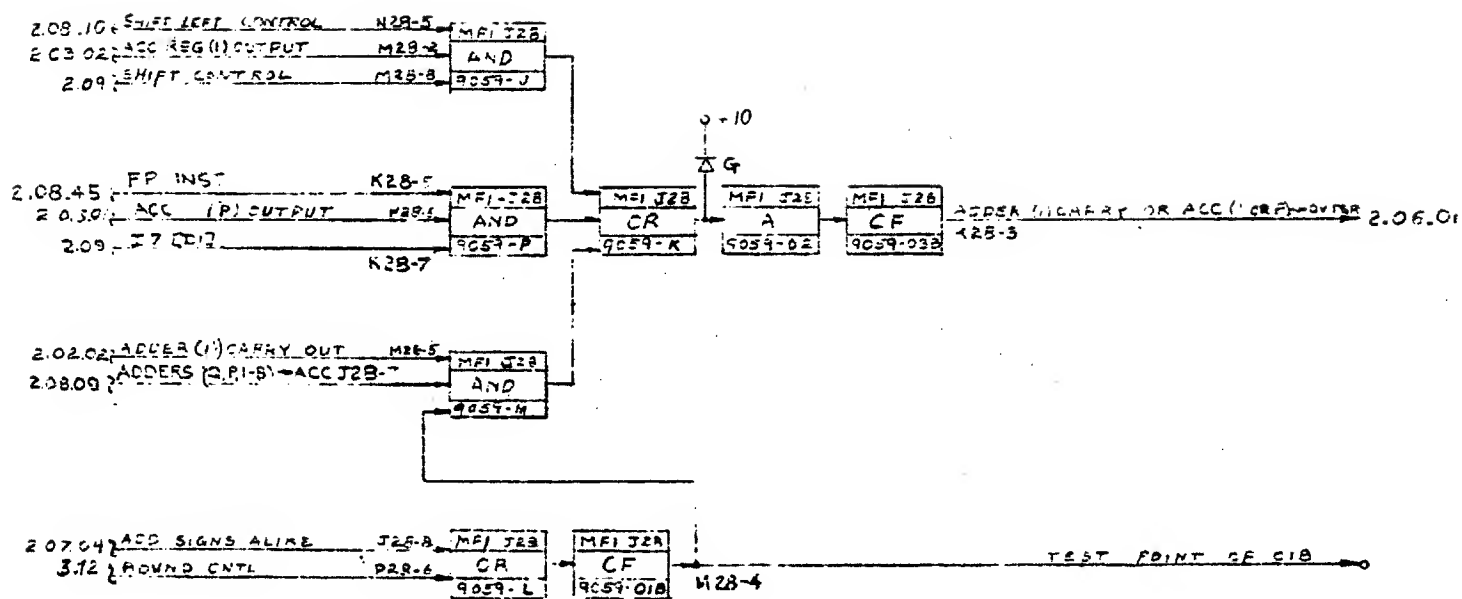
REFER TO S.F.I.

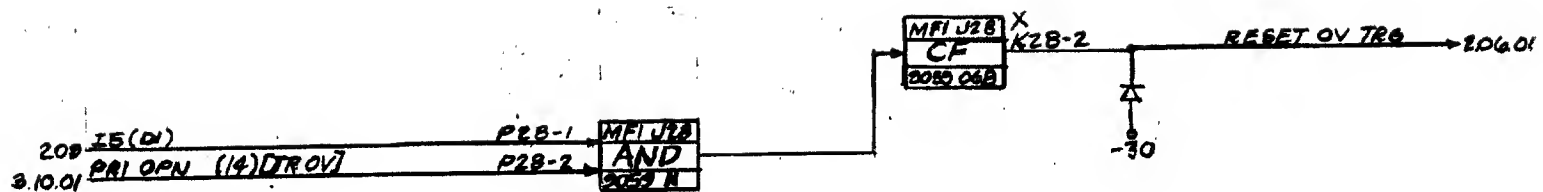
MATERIAL SPECIFICATION		TOLERANCES UNLESS OTHERWISE NOTED		ALIGNMENT WITHIN		NOTE 1: INTERNATIONAL BUSINESS MACHINES CORP.	
NO		DECIMALS & .005		CONCENTRIC WITHIN		TOT. IND. READING NOTE 11	
CASE DEPTH		FRACTIONS & 1/64		FLAT WITHIN		NOTE 12: BACH. ELECTRONIC ANALYTICAL	
HARDNESS		ANGLES & 2		PARALLEL WITHIN		NOTE 13: CONTROL UNIT MODEL 704	
SURFACE TREATMENT		CONVENS. MAY BE ENGRAVED		STRAIGHT WITHIN		NOTE 14: NAME SYSTEM PROGRAM 2.08.34	
SPEC. NO.		TECH. RESEARCH APPRO. DATE		SQUARE WITHIN		NOTE 15: DRAW. 100% 5-16-54 SCALE NONE	
						NOTE 16: CHECK JMT 6-18-54 MAC DM 7-16-54	
						NOTE 17: APPRO. JFC 6-18-54 DMSA SHS 7-21-54	

503764

ADDER (1) CARRY OR ACC (1) (P) OVER

2.08.39



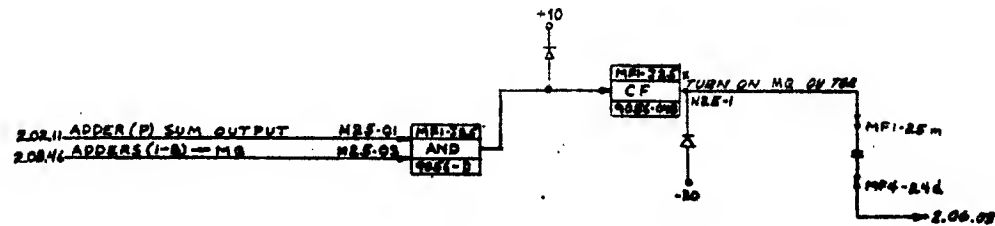


RESET OV TRG

2.0840

SEARCHED	INDEXED	FILED
SERIALIZED	FILED	FILED
DATE	TIME	DATE
NONE	503626	503767

SET MQ OV TGR



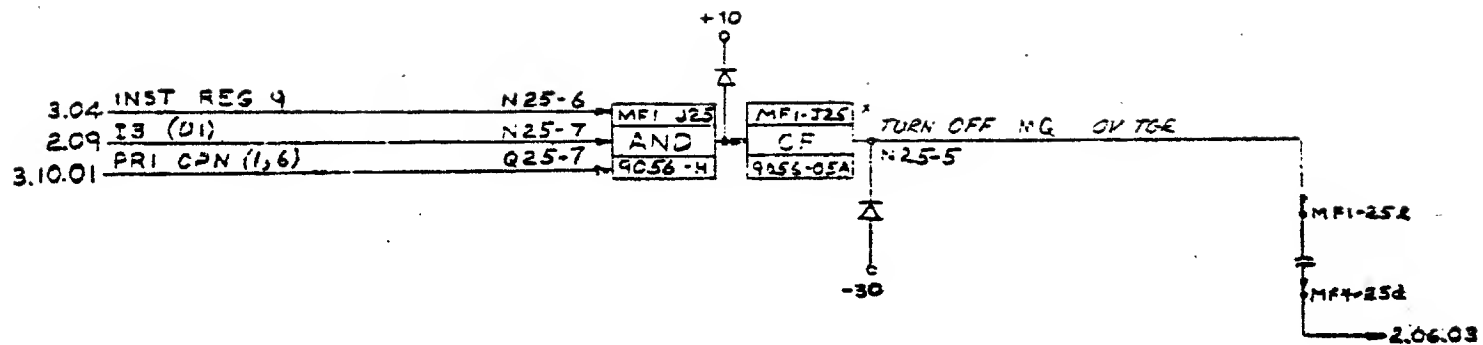
NOTE
X PRINT TO ENG.
SPEC. 895231

2.08.41

NATIONAL SPECIFICATION NO.		TELEPHONE UNLESS OTHERWISE NOTED		ALIGNMENT WITH		NOTE 1		INTERNATIONAL BUSINESS MACHINES CORP.	
CASE DEPTH		DECIMALS & ANG		CONVERTIBLE WITH		SEC. ENG. NOTE V		NAME ELECTRONIC ANALYTICAL	
BARRELS		FRACTIONS & ANG		FLAT WITH		NOTE III		IDNO. 704	
WEAPONS		ANGLES & F		PARALLEL WITH		NOTE IV		NAME SYSTEM DIAGRAM	
WEAPONS		CORNER		OUTLINE		NOTE V		NAME FLE SB-JY NAME NAME	
WEAPONS		DAY OF		REMARKS		NOTE VI		NAME VRT C-3-EE TIME DRM 7-16-59	
WEAPONS		REMARKS		REMARKS		NOTE VII		NAME VRT C-3-EE TIME DRM 7-16-59	
WEAPONS		REMARKS		REMARKS		NOTE VIII		NAME VRT C-3-EE TIME DRM 7-16-59	

503767

503768 EC.24:309A



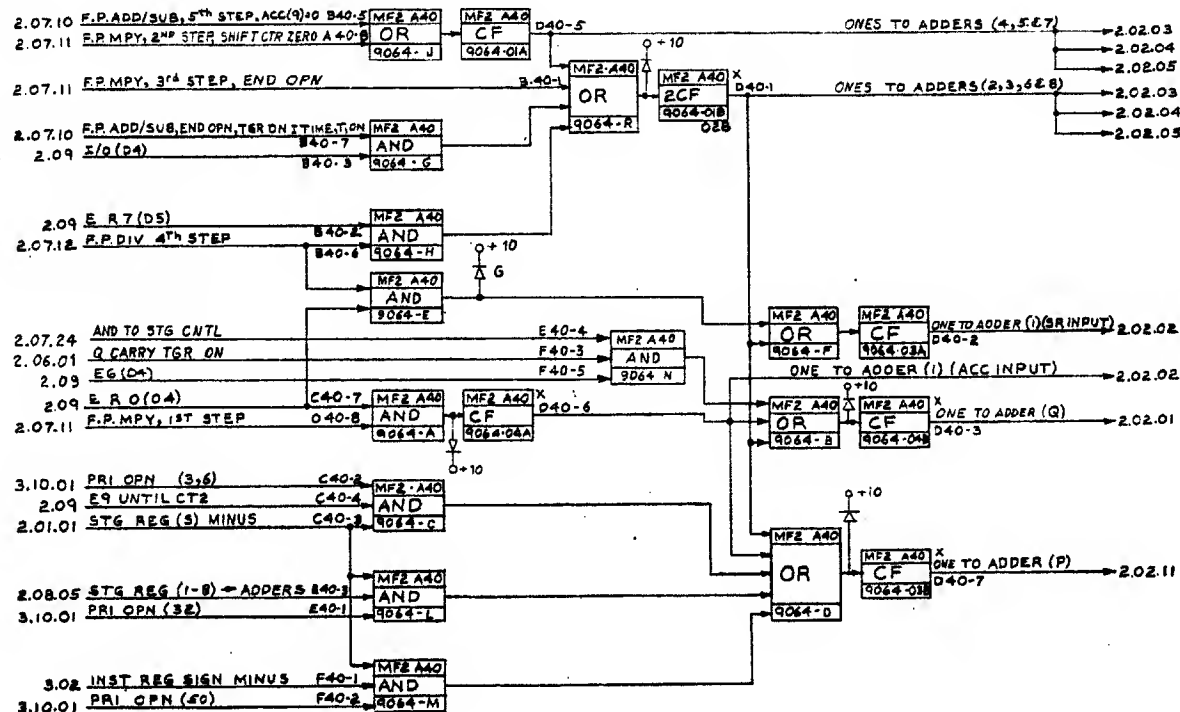
RESET MQ OV TGR

2.08.42

WAS 704-3431

STANDARD CODE	RELEASED FOR ASSETS	STY.	503769
NONE	503426		
DATE	CHANGE NO.		
7-11-55	241398A		
9-14-55	241651		
3-21-56	242396		
9-25-56	242428		

503769 EC 242762B



ONES TO ADDERS (Q,P,1,2,3,4,5,6,7,8)

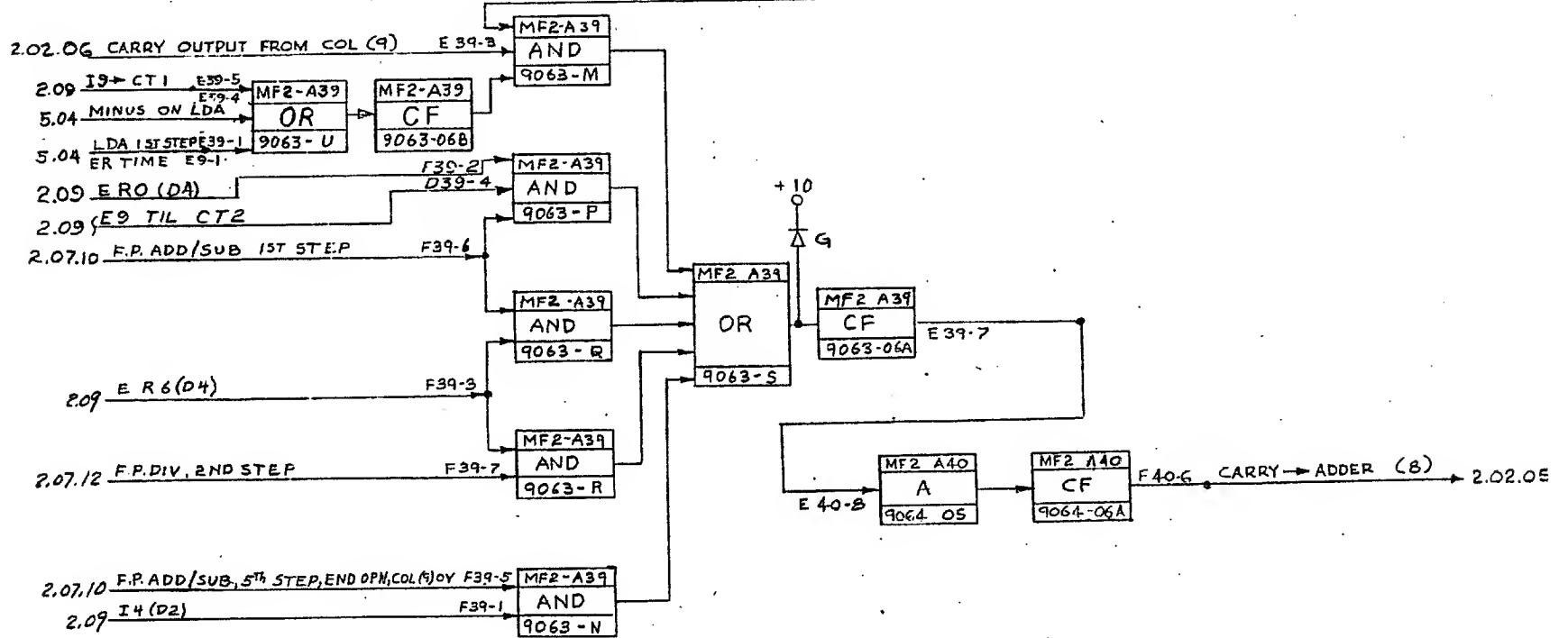
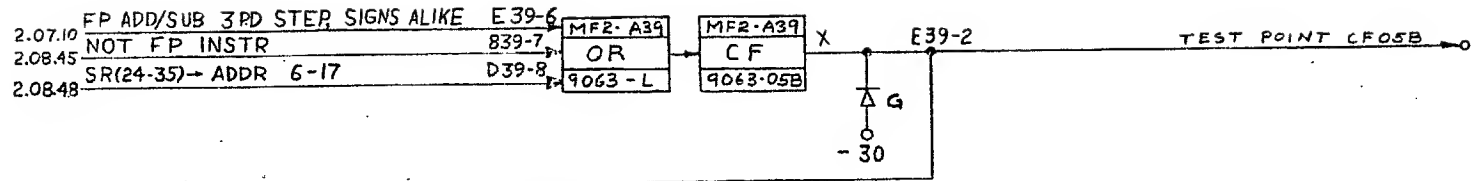
2.08.43

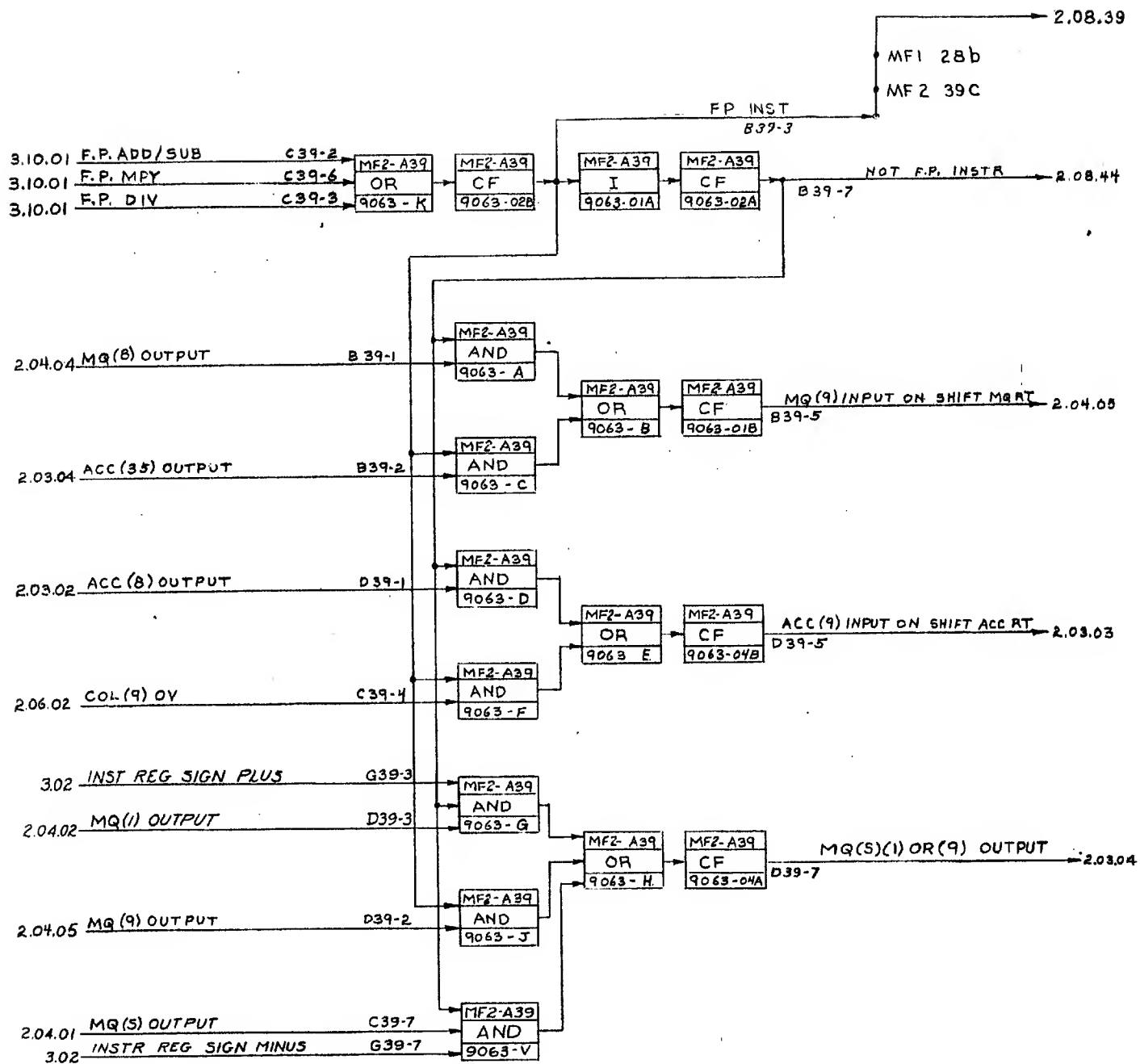
503769

NOTE:
I PRINT TO ENG SPEC 895291.

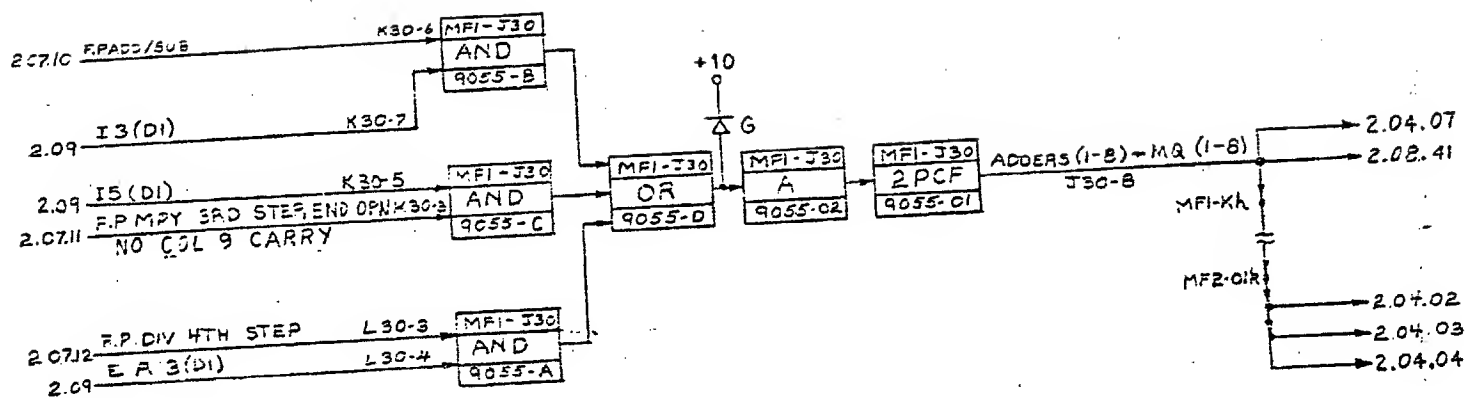
MATERIAL SPECIFICATION NO.	TOLERANCES UNLESS OTHERWISE NOTED	ALIGNMENT WITHIN	NOTE I	INTERNATIONAL BUSINESS MACHINES CORP.
	DIMENSIONS & JOBS	CONCENTRIC WITHIN	NOTE II	BASIC ELECTRONIC ANALYTICAL
CASE DPTH	FRACTIONS & 1/64	FLAT WITHIN	NOTE III	CONTROL UNIT MODEL: 704
HARDNESS	ANGLES & 2"	PARALLEL WITHIN	NOTE IV	NAME: SYSTEM DIAGRAM
SURFACE TREATMENT	CORROSION	STRAIGHT WITHIN	NOTE V	DATE: 6-15-56 SCALE: NONE
	COATING	SQUARE WITHIN	NOTE VI	CHECK: JMT 6-20-56 TRAC: DKM 3-15-56
	FINISH			APPROV: LCM 6-20-56 CHECK: WBS 3-15-56

503769





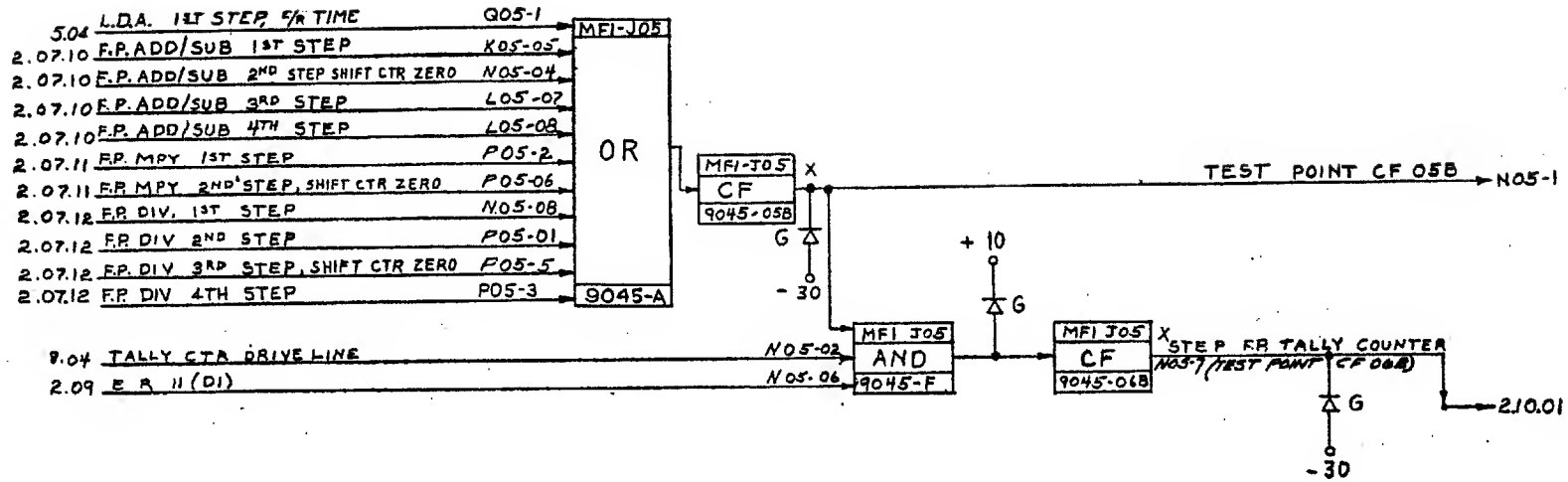
503772 EC 241478



ADDRESS (1-8) to MQ (1-8)

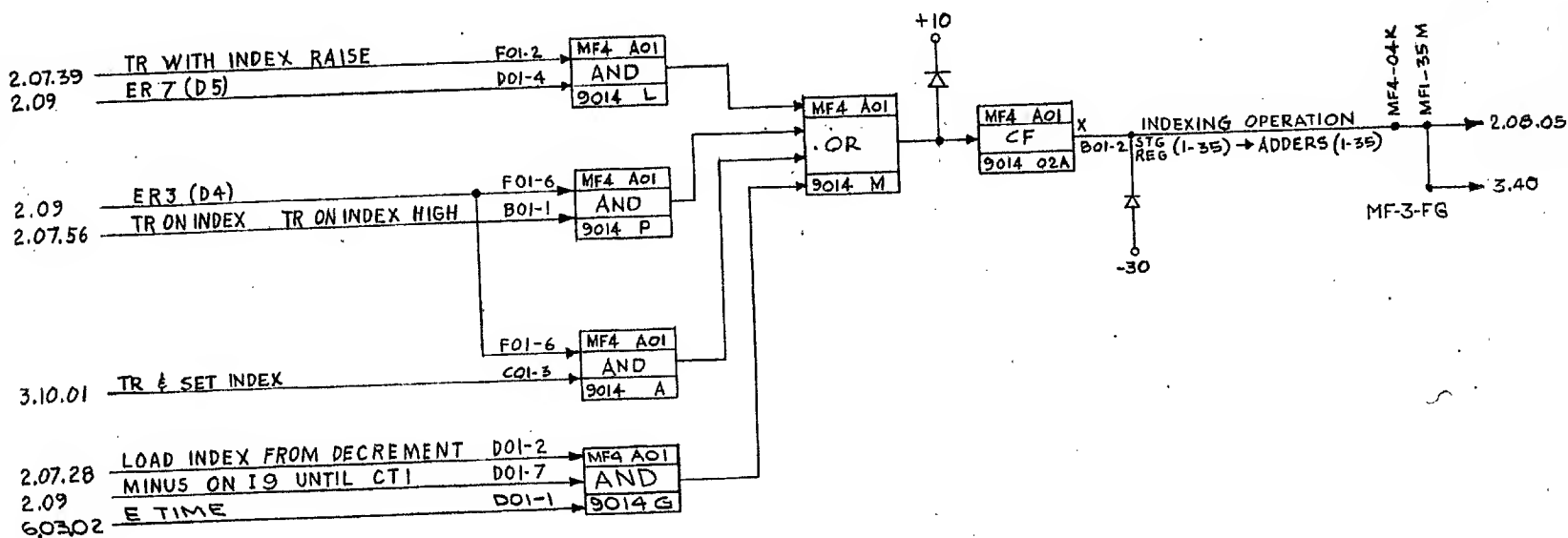
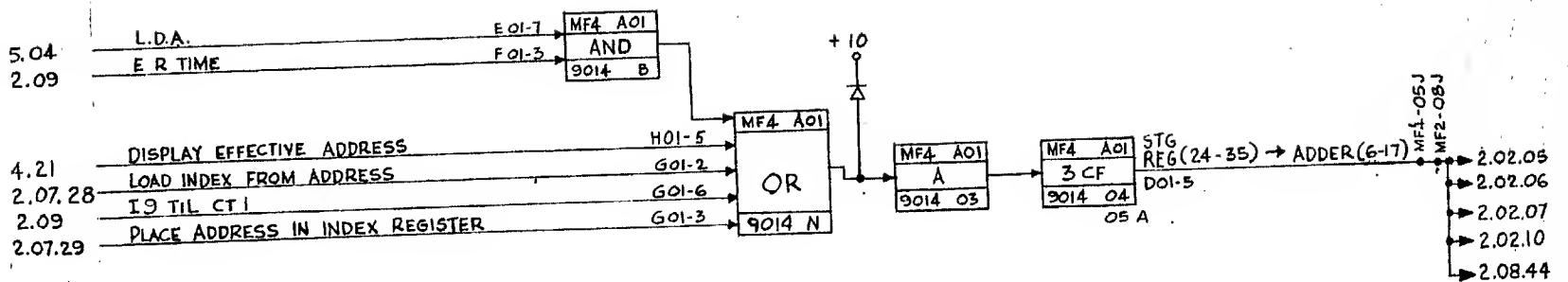
2.04.04

503773 EC. 242758

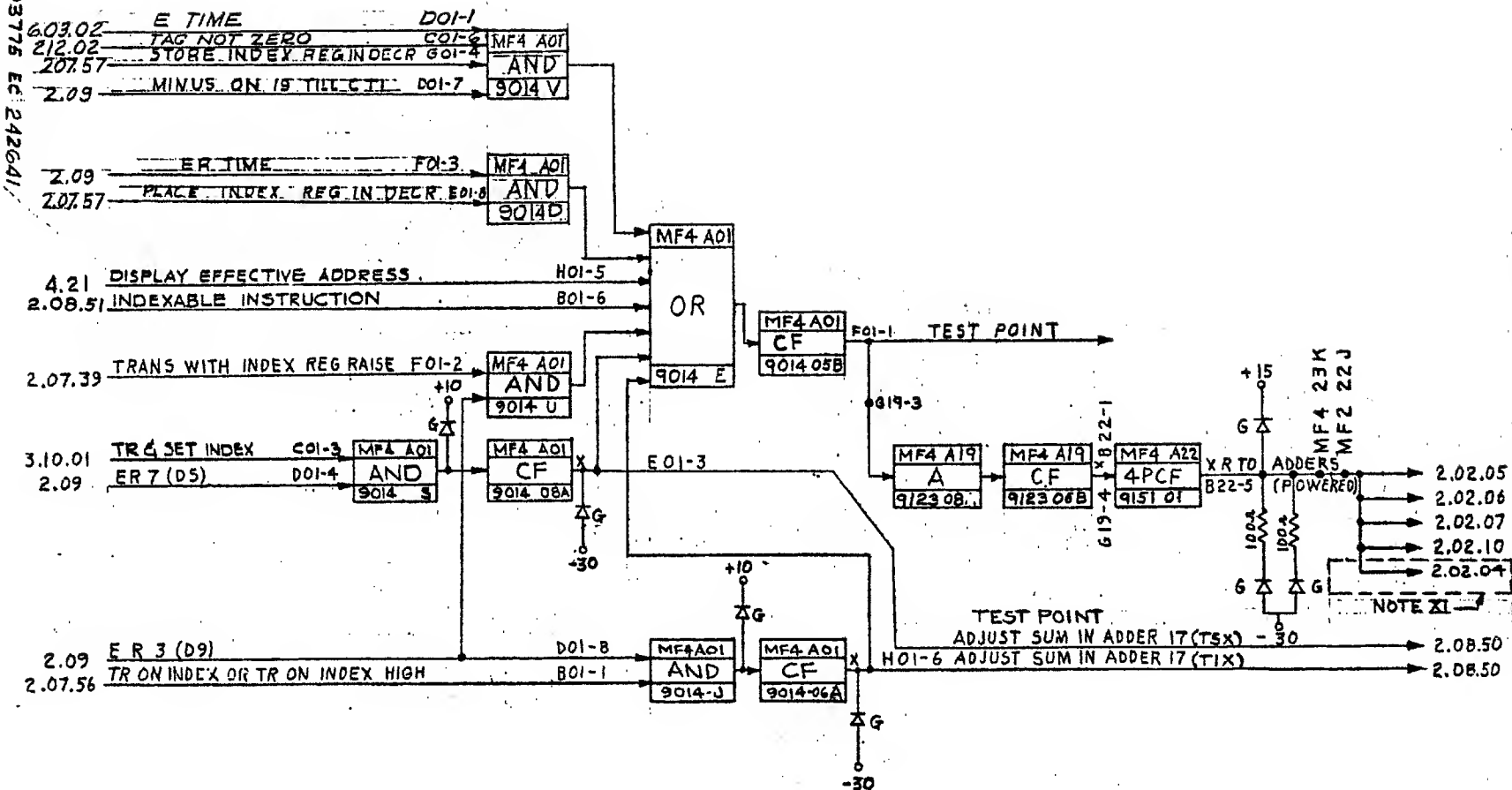


STEP FLOATING POINT TALLY COUNTER

2.08.47



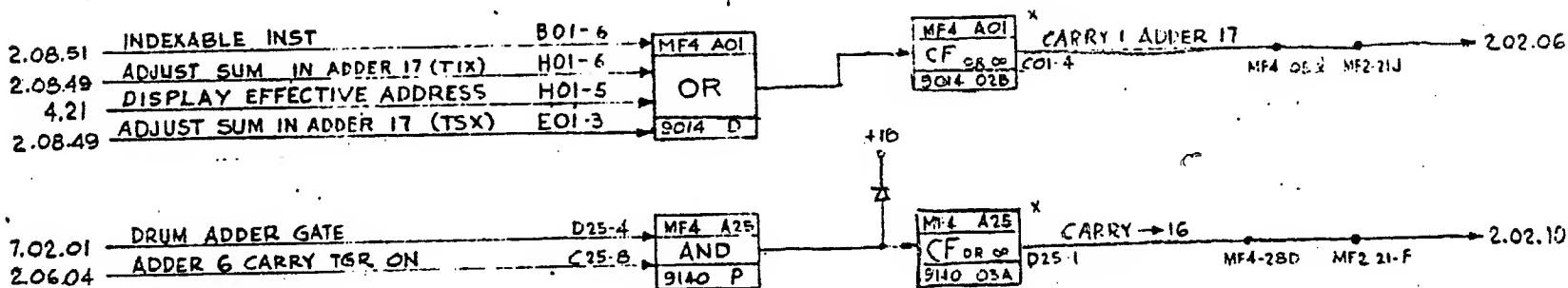
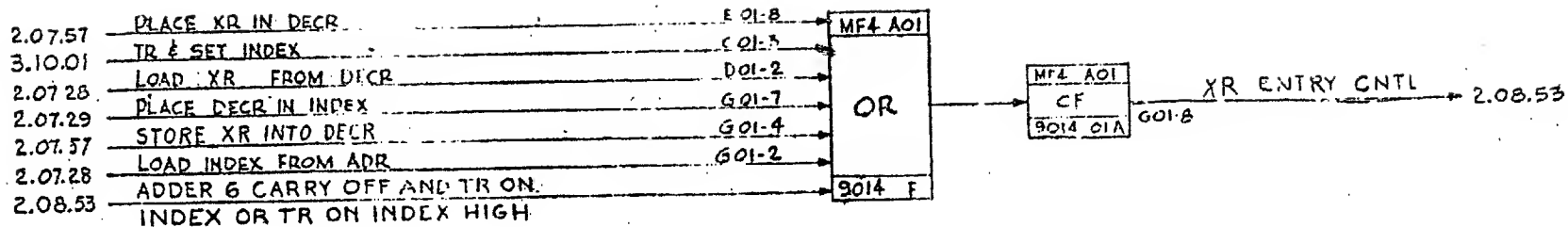
503775 EC 242641



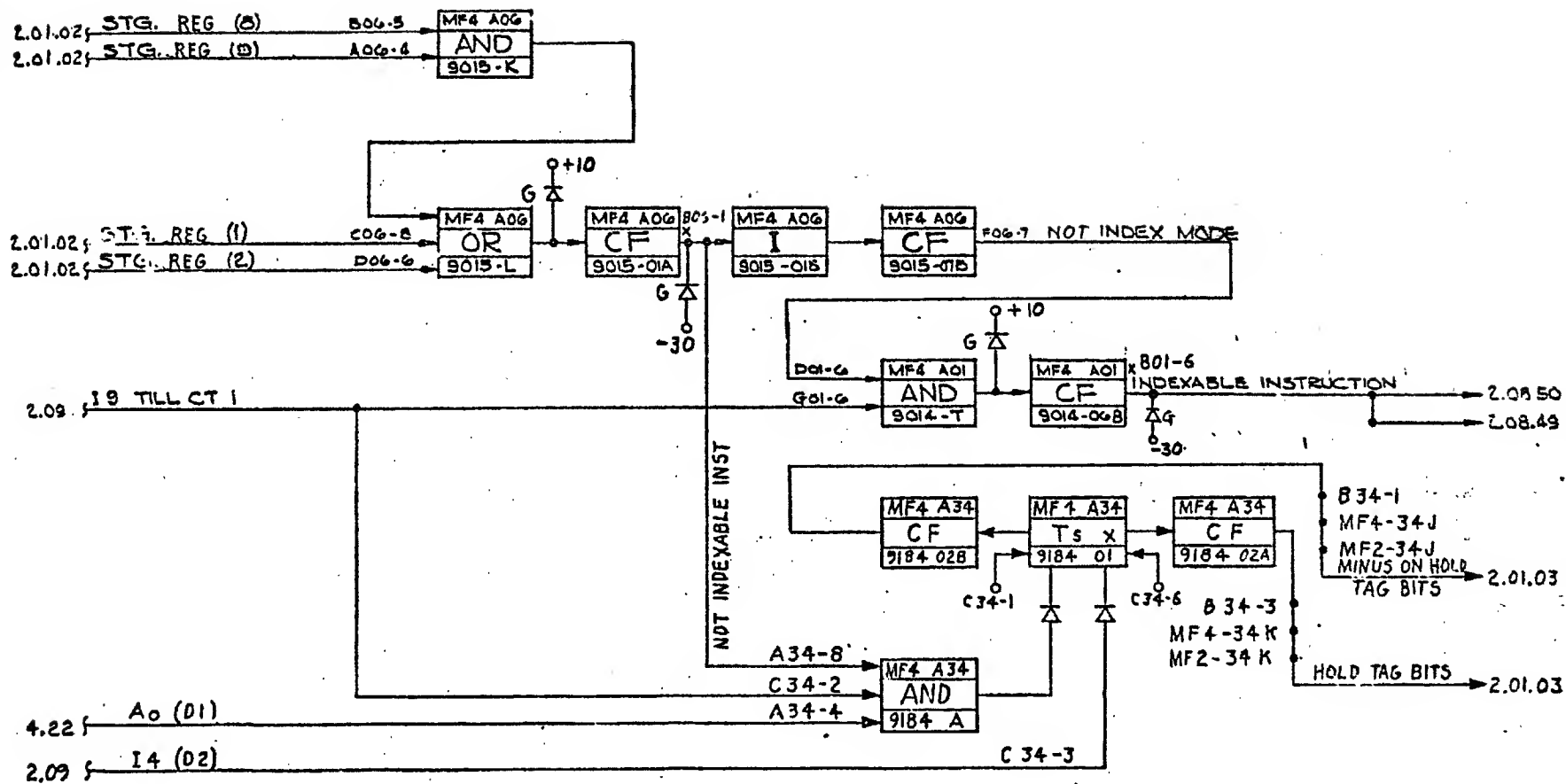
INDEX REGISTER - ADDER

2.08.49

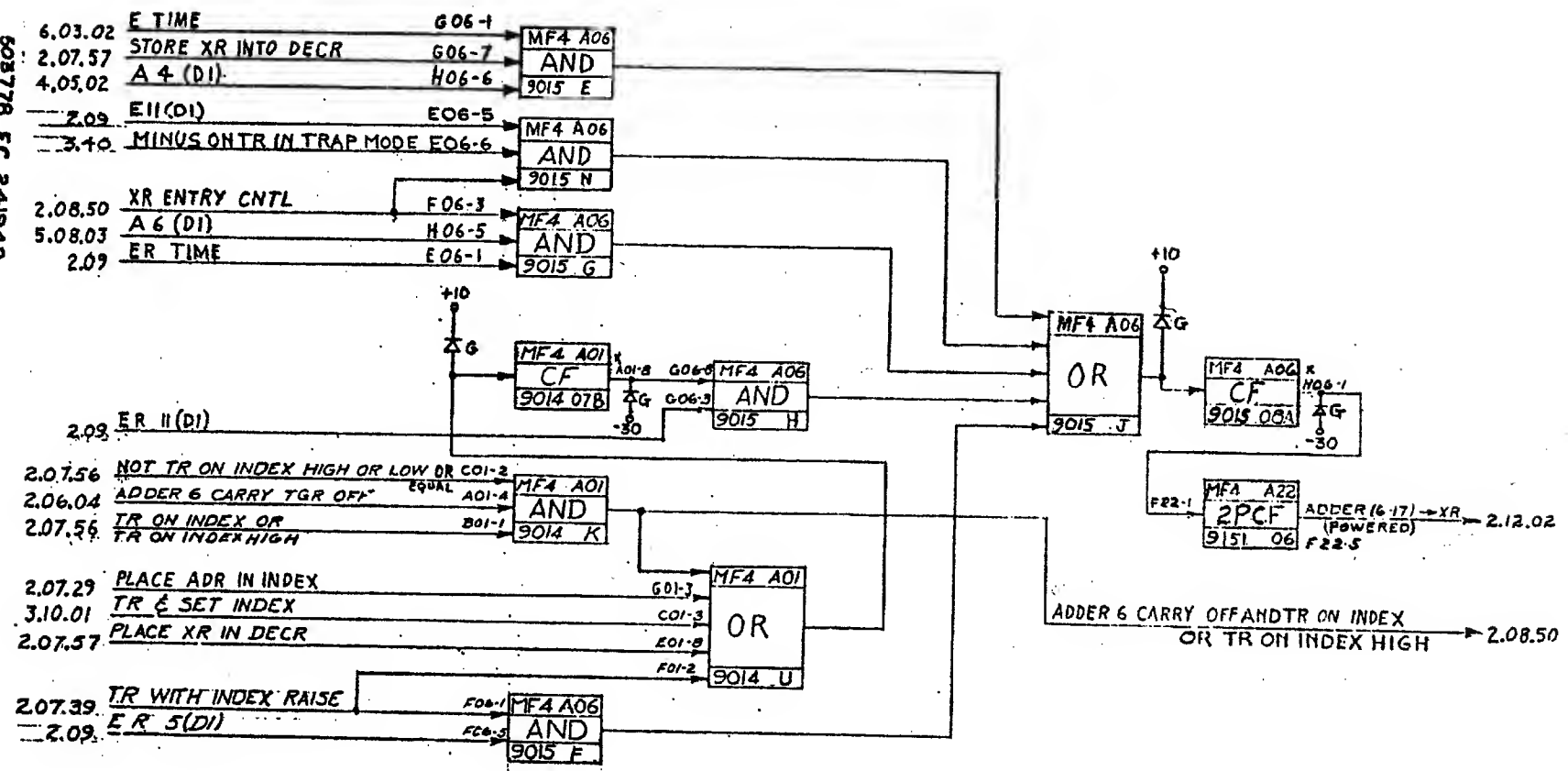
503776 66-42009



XR ENTRY CNTL CARRY 1 → ADDER 16 CARRY 1 → ADDER 17 2.08.50



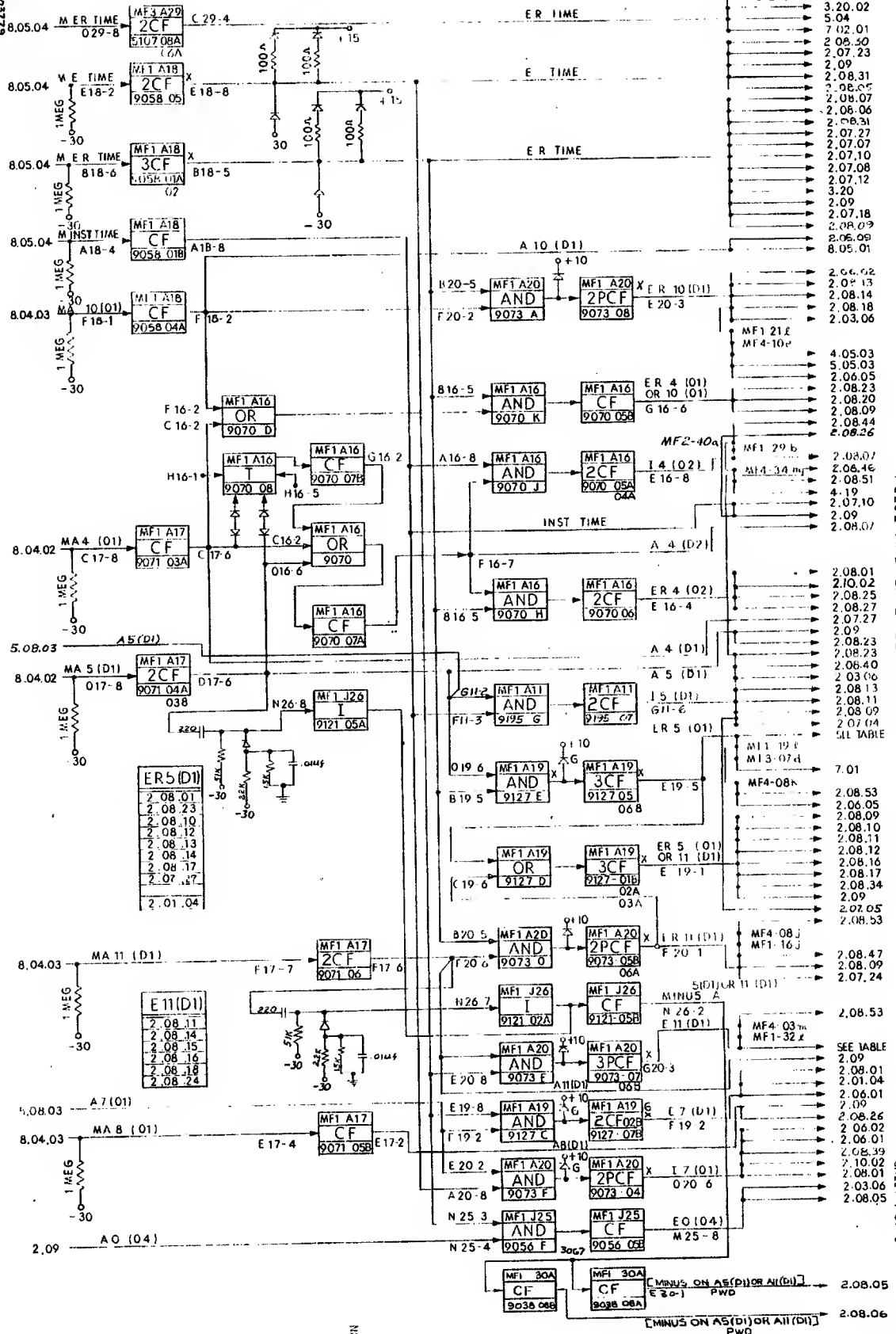
608778 EC 241942



ADDER → INDEX REG

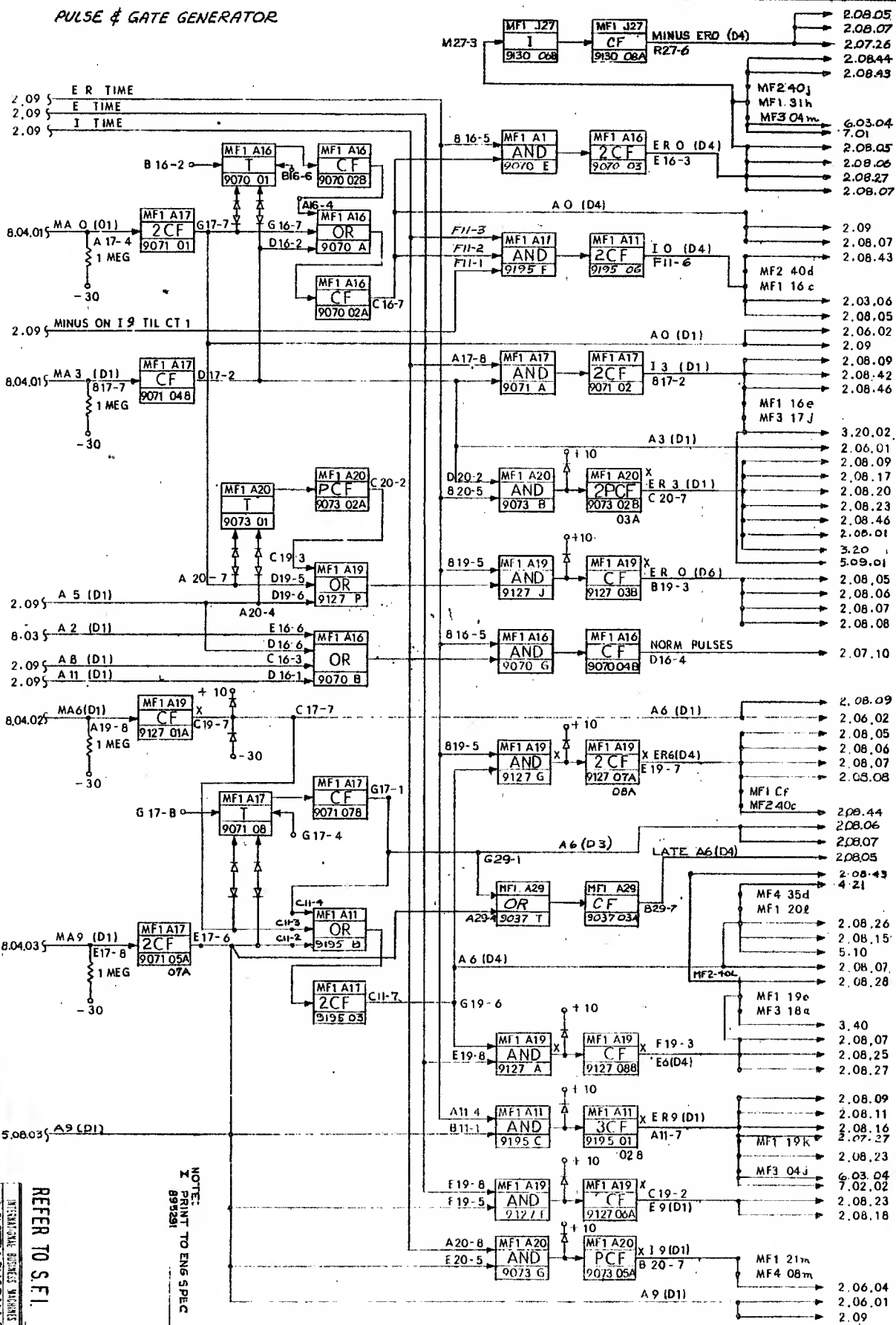
2.08.53

PART NO. 503779
E.C. NO. 24-545



503780

PULSE & GATE GENERATOR



REFER TO S.F.I.

503780

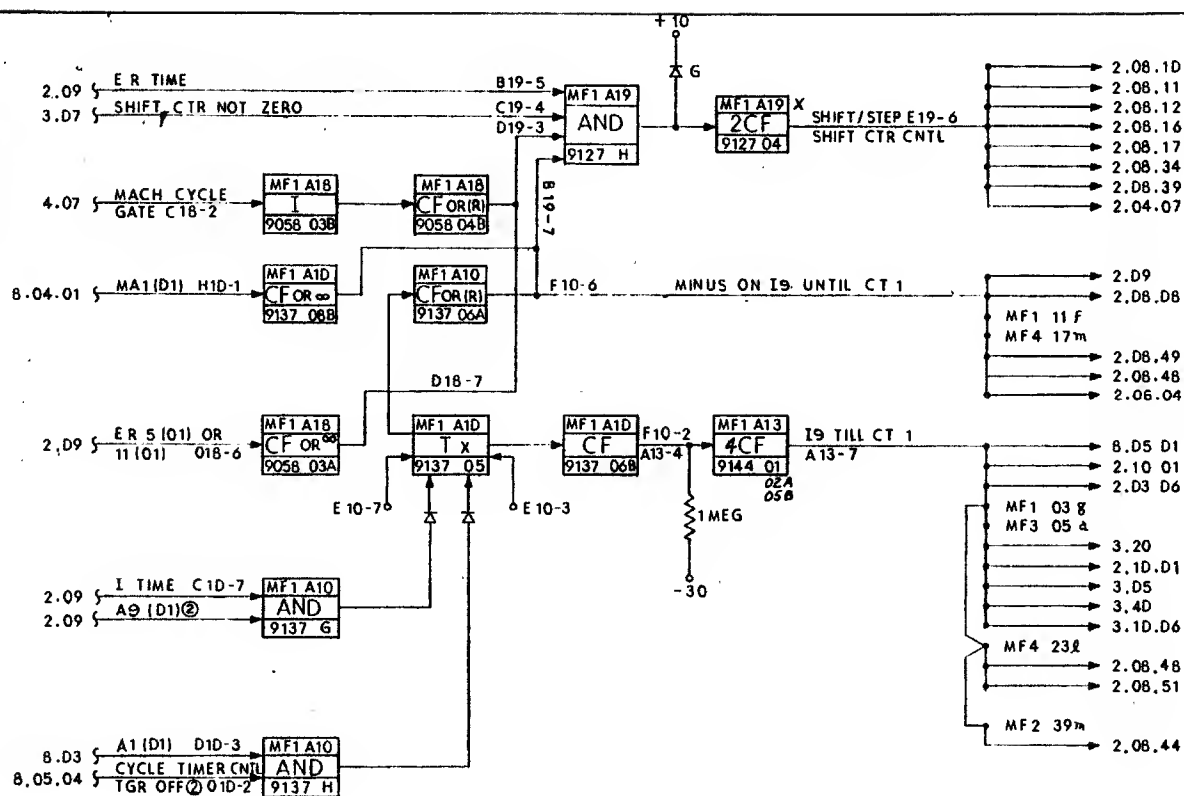
MASTER

WAS 70-4-3498

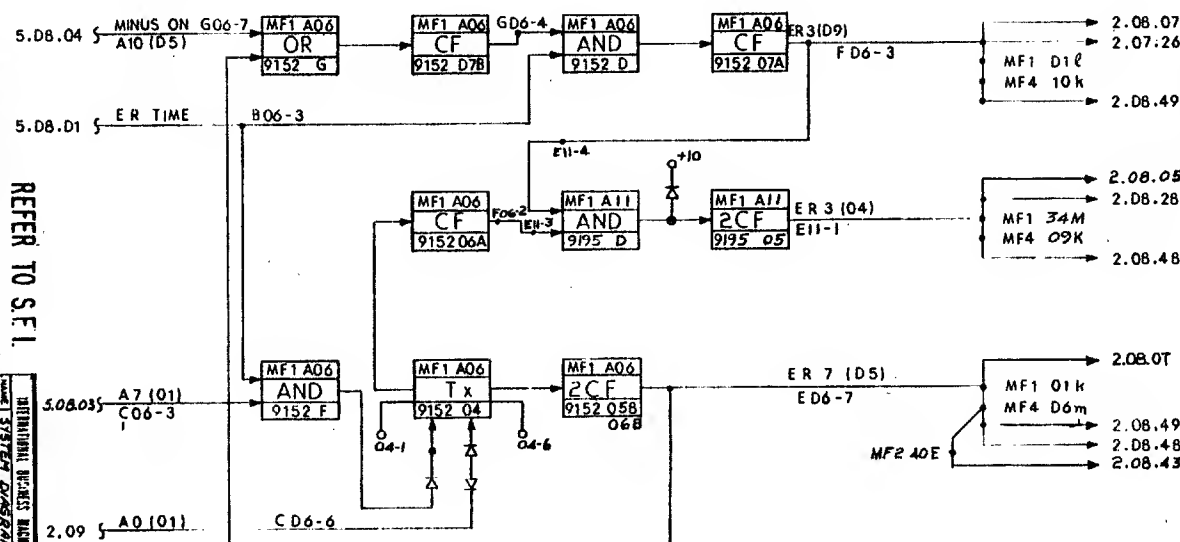
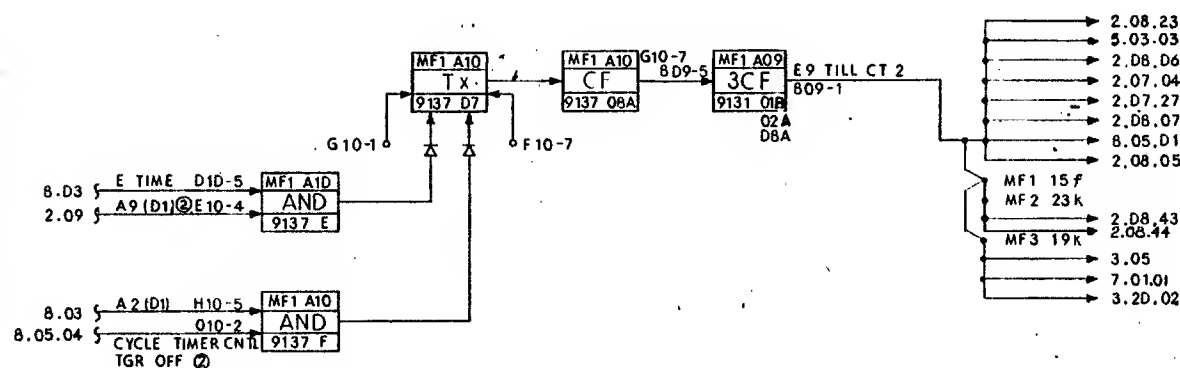
NONE 503780

503780

PART 503781
EC 243156



NOTE:
I PRINT TO ENG SPEC 095291



PULSE AND GATE GENERATOR

SHEET 3 OF 3

CODE	503626	QTY	503781
NONE			

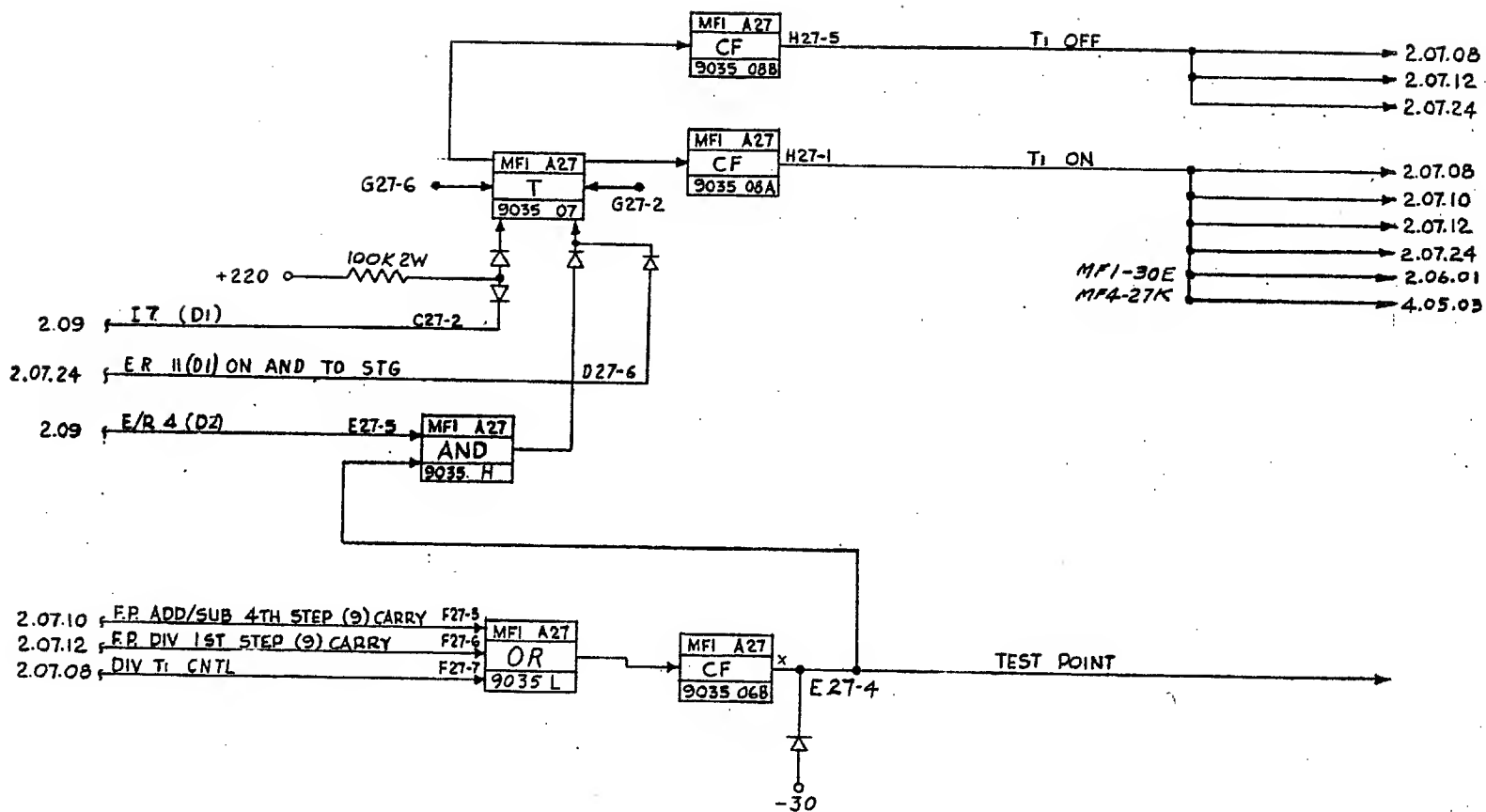
[illegible]

REFER TO S.F.1

INTERNATIONAL BUSINESS MACHINES CORP.
SYSTEM PROGRAM 3.09

2.10.01

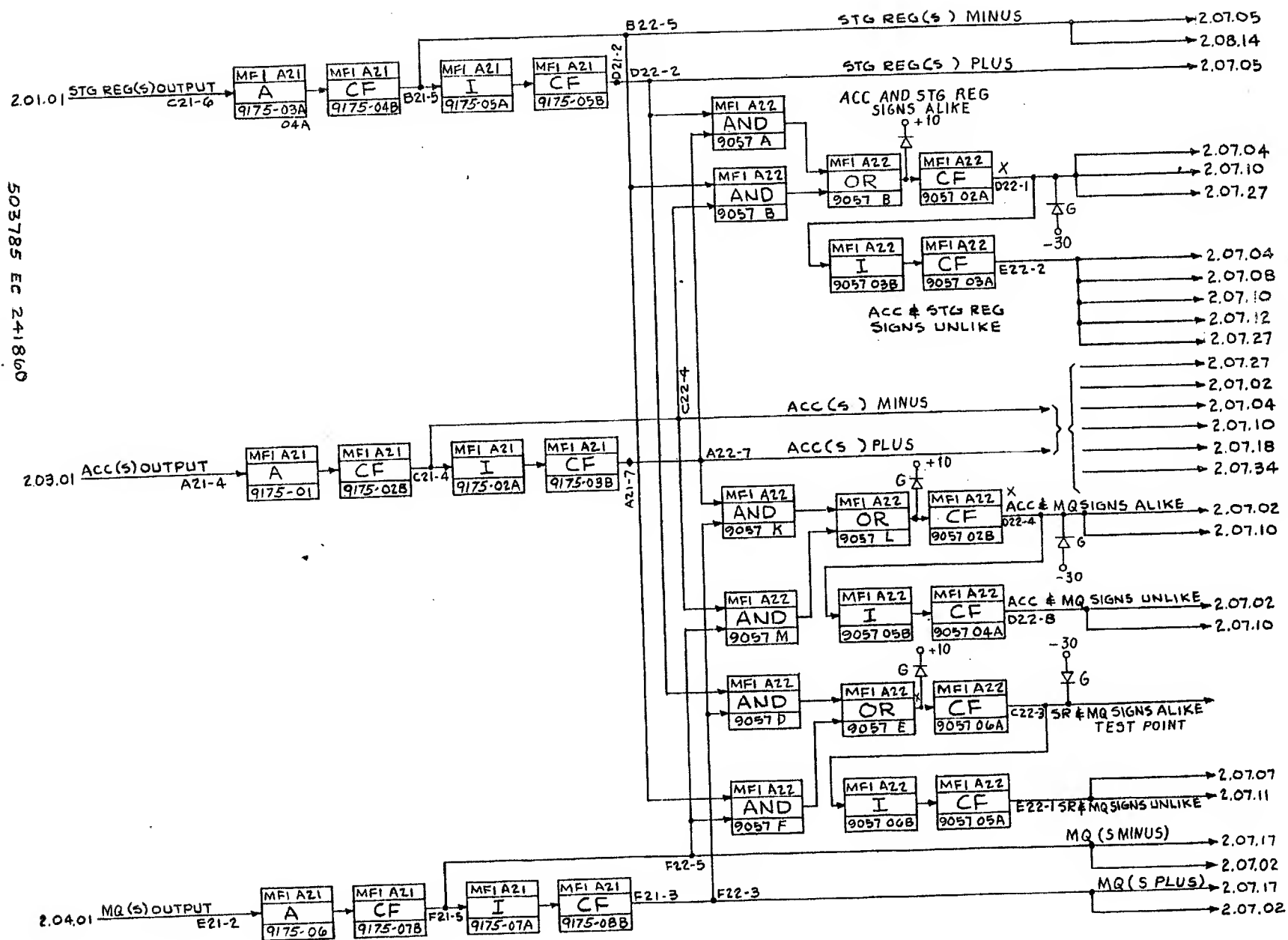




EXEC CNTL TGR (Ti)

2.10.02

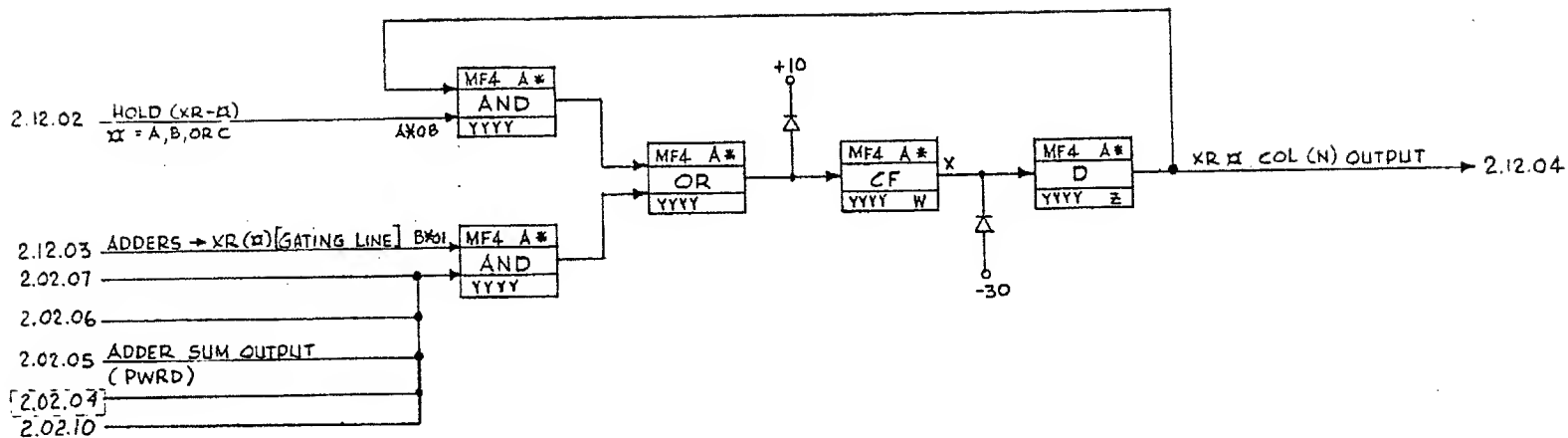
503785 EC 241860



SIGN MIXING

2.11.01

503786 EC 241701



HOLD XR		ADDERS -> XR (D) GATING LINE	
XR			
A	A36-B36-1	02A	03
B	B36-3-F36-2	05B	04
C	C36-7-E36-6	05A	06

COL (N)	C.F (W)	D (Z)
6 02B	01	
7 02B	01	
8 02B	01	
9 02A	03	
10 02A	03	
11 02A	03	
12 05B	04	
13 05B	04	
14 05B	04	
15 05A	06	
16 05A	06	
17 05A	06	

X.R. (A)	COL (N)	P.U. LOC (#)	P.U. PART NO. (YYYY)	ADDER SUM OUTPUT (PWRD)	COL (N) OUTPUT
A 6 07	9018	C07-04	A07-07		
A 7 08	9019	C08-04	A08-07		
A 8 09	9018	C09-04	A09-07		
A 9 07	9018	A07-04	C07-07		
A 10 08	9019	A08-04	C08-07		
A 11 09	9018	A09-04	C09-07		
A 12 07	9018	E07-04	D07-07		
A 13 08	9019	E08-04	D08-07		
A 14 09	9018	E09-04	D09-07		
A 15 07	9018	D07-04	E07-07		
A 16 08	9019	D08-04	E08-07		
A 17 09	9018	D09-04	E09-07		
A 5 36	9194	A36-04	C36-07		

X.R. (B)	COL (N)	P.U. LOC (#)	P.U. PART NO. (YYYY)	ADDER SUM OUTPUT (PWRD)	COL (N) OUTPUT
B 6 10	9019	C10-04	A10-07		
B 7 11	9018	C11-04	A11-07		
B 8 13	9019	C13-04	A13-07		
B 9 10	9019	A10-04	C10-07		
B 10 11	9018	A11-04	C11-07		
B 11 13	9019	A13-04	C13-07		
B 12 10	9019	E10-04	D10-07		
B 13 11	9018	E11-04	D11-07		
B 14 13	9019	E13-04	D13-07		
B 15 10	9019	D10-04	E10-07		
B 16 11	9018	D11-04	E11-07		
B 17 13	9019	D13-04	E13-07		
B 5 36	9194	A36-04	D36-07		

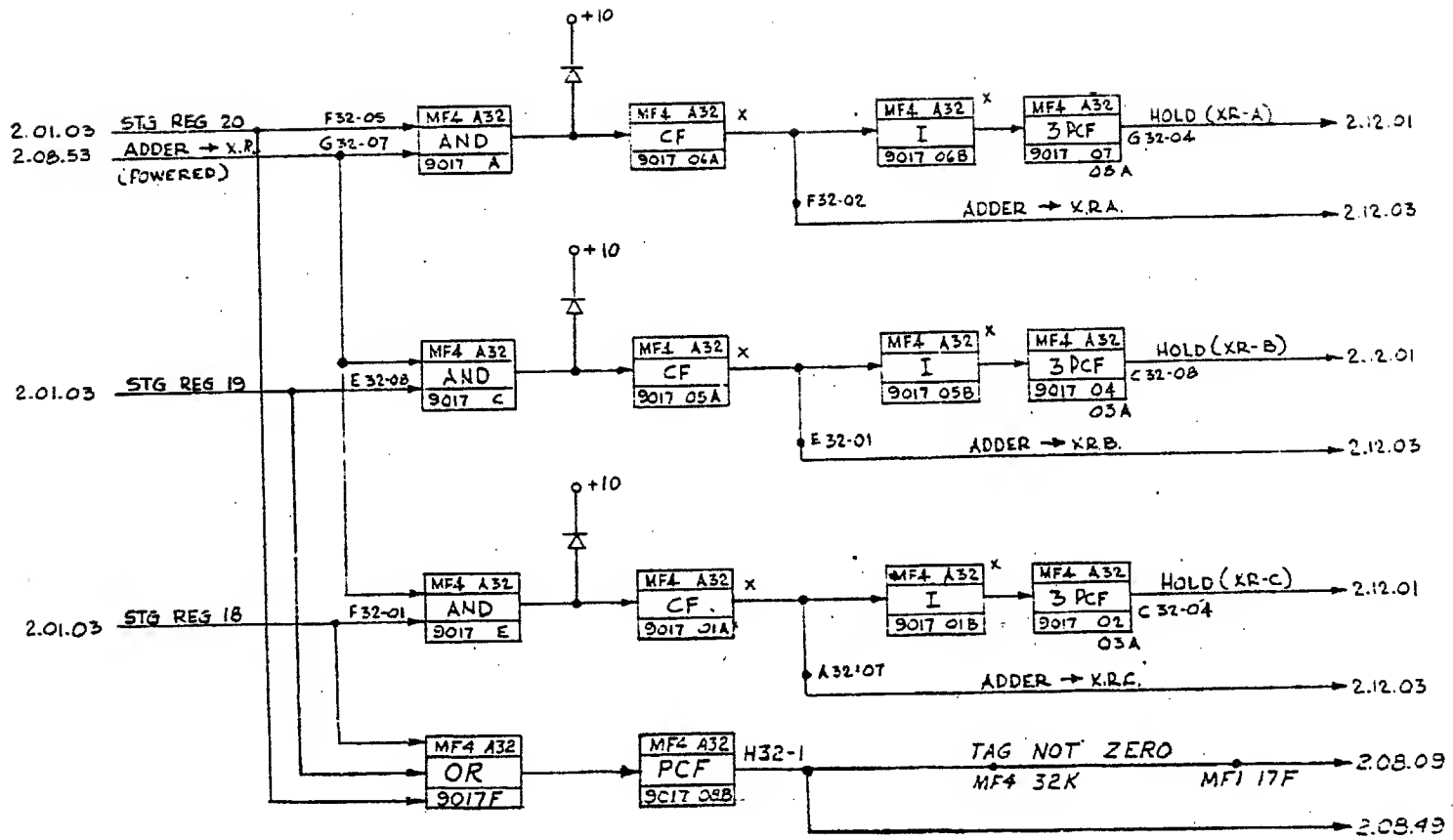
X.R. (C)	COL (N)	P.U. LOC (#)	P.U. PART NO. (YYYY)	ADDER SUM OUTPUT (PWRD)	COL (N) OUTPUT
C 6 14	9018	C14-04	A14-07		
C 7 15	9019	C15-04	A15-07		
C 8 16	9018	C16-04	A16-07		
C 9 14	9018	A14-04	C14-07		
C 10 15	9019	A15-04	C15-07		
C 11 16	9018	A16-04	C16-07		
C 12 14	9018	E14-04	D14-07		
C 13 15	9019	E15-04	D15-07		
C 14 16	9018	E16-04	D16-07		
C 15 14	9018	D14-04	E14-07		
C 16 15	9019	D15-04	E15-07		
C 17 16	9018	D16-04	E16-07		
C 5 36	9194	A36-04	E36-07		

[] FOR 2 CORE FRAMES ONLY

INDEX REGISTER

2.12.01

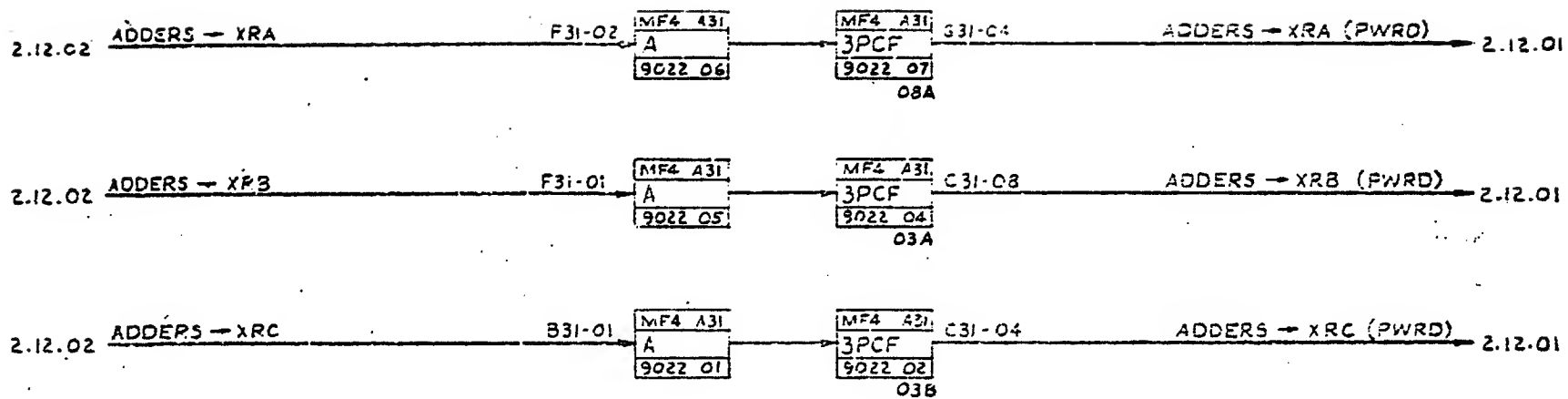
503787 EC 24/906



XR(N) HOLD LINES ADDER → XR.(N)

2.12.02

503788 EC 241599A



ADDERS → XR(N) GATING LINE

2.12.03

WAS 704-3447

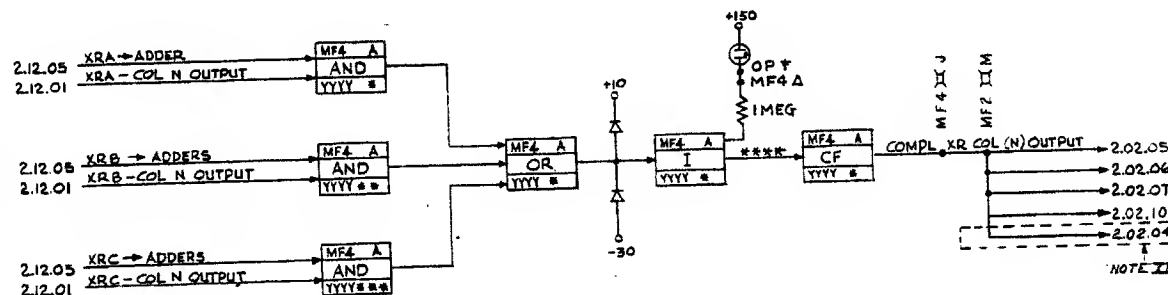
STANDARD
CONV
NONERELEASED
FOR ASSEMBLY
503626

JTY

503789

DATE
7-11-55 241399A
10-11-55 241701
9-17-56 243160

503789 EC 243160



OP	PWL	ECT	PIN NO	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X X X	X X
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